CATALOGUE NUMBER OF THE

WELLESLEY COLLEGE BULLETIN

WELLESLEY, MASSACHUSETTS

OCTOBER 15, 1944

Visitors to the College are welcome, and student guides are available. The administrative offices in Green Hall are open Monday through Friday from 9 A.M. to 4:30 P.M., and until 12 on Saturday. The offices are closed from Saturday noon until Monday morning, and members of the faculty and staff are available for interview during this time only by special appointment made in advance.

This bulletin is printed in compliance with Government restrictions

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OCTOBER 15, 1944

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Volume 34 Number 2

DIRECTIONS FOR CORRESPONDENCE

In the list below are the administrative officers to whom inquiries of various types should be sent. The post office address is Wellesley 81, Massachusetts.

General Policy of the College
The President of Wellesley College

Admission of Undergraduates
The Chairman of the Board of Admission

Applications for Readmission
The College Recorder

Admission of Graduate Students
The Dean of Graduate Students

Inquiries Concerning Houses and Notice of Withdrawal
The Dean of Residence

Payment of College Bills
The Assistant Treasurer (Checks should be made payable to Wellesley College)

Scholarships
The Dean of Students

Academic Work of Students
The Class Dean

Social Regulations
The Dean of Residence

Requests for Transcripts of Records
The College Recorder

Alumnae and Undergraduate Employment
The Director of the Placement Office

Requests for Catalogues
The Information Bureau

Alumnae Affairs
The Executive Secretary of the Alumnae Association

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1944–1945

SEPTEMBER

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JULY

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CALENDAR

ACADEMIC YEAR 1944–1945

Registration of new students, 9 A.M. to 10.30 P.M. Wednesday, August 23
Registration closes for all other students, 10.30 P.M. Friday, August 25
Classes begin . . . . . Monday, August 28
Recess { from 3.30 P.M. . . . . Thursday, October 19
to 8.40 A.M. . . . . Wednesday, October 25
Thanksgiving Day, holiday . . . . . November 23
Examinations . . . . . December 8 to 15
First semester ends at 4.30 P.M. . . . Friday, December 15

Registration for second semester closes, 10.30 P.M. Tuesday, January 16
Classes begin . . . . . Wednesday, January 17
Recess { from 3.30 P.M. . . . Thursday, March 15
to 8.40 A.M. . . . . Friday, March 23
Examinations . . . . . May 8 to 17
Commencement . . . . . Sunday, May 20

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President of Wellesley College

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Treasurer of Wellesley College

* Absent on war service. Acting Treasurer, F. Murray Forbes.

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Frederic Haines Curtiss
F. Murray Forbes
Marie Rahr Haffenreffer
Walter Hunnewell
John Peirce Chase (*ex officio*)

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Frank Gilman Allen
Robert Gray Dodge
Walter Hunnewell
F. Murray Forbes
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Frank Gilman Allen
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Sara Mathilde Soffel
Calma Howe Gilkey
Palfrey Perkins
Theodore Spencer
Lily Ross Taylor

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Theodore Spencer

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Frederic Haines Curtiss
Reginald Fitz
Grace Goodnow Crocker
Dorothy Bridgman Atkinson
Charles Codman Cabot
Grace Ballard Hynds
John Peirce Chase (*ex officio*)

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Marie Rahr Haffenreffer

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HELEN SARD HUGHES, PH.D.,
Professor of English Literature, and Dean of Graduate Students

* The officers of instruction are listed by rank in order of appointment. All professorial ranks are combined in one group.

[W] Absent on war service.

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HARRIET CUTLER WATERMAN, PH.D., *Associate Professor of Zoölogy*

GLADYS KATHRYN MCCOSH, PH.D., *Associate Professor of Zoölogy*

[1] Absent on leave.
[W] Absent on war service.

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MARY LOWELL COOLIDGE, PH.D., *Professor of Philosophy*

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MARY LELLAH AUSTIN, PH.D., *Associate Professor of Zoölogy*

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ADA ROBERTA HALL,[2] PH.D., *Assistant Professor of Physiology*

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RENÉ ESCANDE DE MESSIÉRES, AGRÉGÉ DE L'UNIVERSITÉ, *Professor of French*

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MARION ISABEL COOK, M.A., *Assistant Professor of Hygiene and Physical Education*

CÉCILE DE BANKE,[2] *Assistant Professor of Speech*

HELEN WALTER DODSON,[W] PH.D., *Assistant Professor of Astronomy*

[W] Absent on war service.
[1] Absent on leave.
[2] Absent on leave for the first semester.
[3] Absent on leave for the second semester.

EVA ELIZABETH JONES, PH.D.,
Associate Professor of Zoölogy, and Dean of the Class of 1947

ELINOR MARIE SCHROEDER, PH.D.,
Assistant Professor of Hygiene and Physical Education

M. MARGARET BALL, PH.D., *Associate Professor of Political Science*

JOHN GUSTAVE PILLEY, M.A. OXON., *Associate Professor of Education*

CHARLES WILLIAM KERBY-MILLER, PH.D.,
Assistant Professor of English Composition

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Assistant Professor of Latin and History

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DAVID BARNETT, B.A., *Instructor in Piano*

CARL WEINRICH, B.A., *Instructor in Organ*

ARNOLD GEISSBUHLER, *Instructor in Modeling*

[w] Absent on war service.

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ALFRED ZIGHERA, *Instructor in Violoncello*
ROBERTA MARGARET GRAHAME, PH.D., *Instructor in English Composition*

[4] Appointed for the first semester only.
[5] Appointed for the second semester only.

HELEN VIVIAN HAMMARBERG, PH.D., *Instructor in Political Science*
MARIE-HÉLÈNE PAULY, DOCTEUR DE L'UNIVERSITÉ DE PARIS, *Instructor in French*
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[4] Appointed for the first semester only.
[5] Appointed for the second semester only.

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CURTIS M. HILLIARD, B.A.

[4] Appointed for the first semester only.
[5] Appointed for the second semester only.

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HISTORICAL SKETCH

WELLESLEY COLLEGE is one of that group of women's colleges established in the nineteenth century to offer to young women the educational opportunities "equivalent to those usually provided in colleges for young men." The motive of its founder, Henry Fowle Durant, was, however, something more than the enrichment of the experience of young women for their own sake. Addressing the first students in the fall of 1875 he said, "You mistake altogether the significance of the movement of which you are a part if you think this is simply a question of a college education for girls. I believe that God's hand is in it; . . . that He is calling to womanhood to come up higher, to prepare herself for great conflicts, for vast reforms in social life, for noblest usefulness."

To the end of preparing women for positions of responsibility, Mr. Durant insisted from the beginning on the maintenance of high academic standards, and of healthy community life in beautiful surroundings. He built an impressive College Hall on his own spacious estate twelve miles west of Boston, and spared no pains to make his gift contribute to the aesthetic development of students. He began to beautify the four hundred acre campus which has become one of Wellesley's distinctive assets. He encouraged the inclusion in the student body of representatives from all parts of the country and from foreign lands. He placed more emphasis on personal quality than on the accident of economic status, and he maintained a real democracy within the college family. He opened unusual professional opportunities to women on the faculty. He introduced laboratory work in science before it was widely recognized as academically necessary. He recognized the significance of the arts in education and encouraged "learning by doing." He assumed that religion was a normal part of the life of educated people and made provision for its study and expression in the program of the new community.

From the beginning the Board of Trustees has been composed of men and women whose interests have been far-reaching in New England and around the world. The first board included the President of Yale College, Chancellor of the University of the City of New York, Dean of the Episcopal Theological School at Cambridge, President of Boston University, a professor of the Rochester Theological Seminary and of Andover Theological Seminary, two pastors, and a former Governor of Massachusetts. The roster has been continuously noteworthy for the calibre of the persons who have contributed of their time, their professional experience, their money to strengthen the College. The present board includes educators as well as financiers, lawyers, an architect, a doctor, businessmen—men and women of wide cultural interests selected for their expert contribution. It is a working board. Three of its regular members are nominated by vote of the Alumnae Association.

An unusual feature of organization is the membership of a "faculty trustee" who is not a member of the faculty but is nominated by the Academic Council.

The history of the College falls into two fairly distinct periods, before and after the College Hall Fire. The College was chartered on March 17, 1870, but the planning of the program and the construction of College Hall required five years of effort and the opening did not occur until September, 1875. In a surprisingly short period, under the leadership of President Ada Howard (1875–1881) and Alice Freeman (1881–1887), the institution became established as a well-known college. It borrowed ideas and methods from various institutions, notably Mount Holyoke Seminary's program of domestic work for each student. It drew heavily on the resources of Harvard University but at once assumed responsibility for copying nothing blindly and for introducing a type of instruction which gave scope to the initiative of students.

During the presidencies of Helen Shafer (1887–1894) and Julia Irvine (1894–1899) the present curriculum of the College took shape and the experimental venture in higher education for women became established as a permanent part of the educational scene. President Caroline Hazard (1899–1910) brought to the academically mature College the graciousness of the artist. Music, art, gracious living were reemphasized as important factors in a community of educated people.

On the night of March 17, 1914, College Hall burned to the ground. The orderly evacuation of the building with no injury to any occupant won world-wide fame for the already well-known College. In the emergency created by this catastrophe President Ellen Fitz Pendleton (1911–1936) came to the position of leadership which made her indeed the builder which she will always be in the grateful memory of Wellesley women. Within twenty-five years the College grew from an inadequately housed, financially handicapped institution to a beautifully equipped and well-endowed college. More significantly, Miss Pendleton guided the reorganization of the faculty into a democratically controlled policy-making body which worked consistently to maintain and develop a vital curriculum and community life. She assisted in the formation of a vigorous Alumnae Association and presided over the magnificent efforts of the trustees and alumnae to raise enough money to rebuild, expand, and endow the College.

During the very years of Wellesley's urgent need, the efforts of all its members were directed to the war service of four overseas units. Wellesley is no "ivory tower" to which people withdraw from contact with world needs. Her fourteen thousand alumnae, engaged in every kind of responsible task, prove that fact. The register of graduates lists Wellesley women living in each state of the United States and in fifty-one foreign lands.

Wellesley College started with three hundred students, most of them in a preparatory department which was part of the College until 1879. It has become a college for fifteen hundred students, with fifty or sixty

graduate students. Commensurate with this growth, the external aspects of the College have changed almost completely. Starting with one building, it now has forty-seven. It began with Mr. Durant's private library of 8,000 volumes; its present library numbers over 226,000 volumes. Its one gymnasium room has been replaced by two large buildings to provide instructional and recreational facilities for the graduate department of Hygiene and Physical Education and for the enlarged undergraduate group.

With the coming of war in December, 1941, faculty and students alike turned their attention toward preparing the College for its part in the war effort. Changes were made in the lighting of buildings and grounds to conform to the dimout regulations of this region, and a college organization for air-raid protection was developed in close coöperation with the Town of Wellesley. The students modified their extracurricular activities to free time for various kinds of community or war service. Also, a faculty-student committee was organized to encourage students to use vacations for this purpose. Students have met the shortage of employees by doing domestic work in the houses coöperatively. From October, 1943, to September, 1944, a branch of the Navy Supply Corps School located at Harvard University was housed in Cazenove and Pomeroy Halls.

In the midst of these changes in the daily routine and in the external aspects of college life, members of the faculty and administration are making every effort to safeguard the integrity of the academic work of the College and to play their part in maintaining the intellectual disciplines underlying our civilization.

ADMISSION

Admission to Wellesley College is competitive. From the group of candidates, the Board of Admission selects those who give the best evidence of possessing intellectual interest and ability and the qualities of character and personality necessary for college citizenship. There is a definite limit on the number of students who can be admitted in any year since the College has facilities for only fifteen hundred students.

Application for Admission

All communications concerning admission should be addressed to the Chairman for the Board of Admission, Wellesley College, Wellesley 81, Massachusetts.

Forms for application will be furnished on request. An application fee of ten dollars is required of all applicants and no registration is recorded until the fee is received. If the candidate cancels her registration or does not enter the College for any reason, the fee is not refunded, but it may be transferred to apply to a later year if the request for the transfer is received within a reasonable time after the beginning of the year for which the candidate is registered to enter college.

A report from the applicant's physician showing that she is organically sound and in good health, together with a certificate of vaccination and any required tests, must be filed with the Board of Admission well in advance of the date of entrance. The College reserves the right to reject any candidate who, in the opinion of the college physicians, is not fitted for work in the college community, and to dismiss at any time a student who does not coöperate fully with the college health officers.

Admission to the Freshman Class

Application for admission to the freshman class may be made to the Chairman of the Board of Admission at any time up to March 1 of the year of entrance. A student is advised to make application at the beginning of her secondary school course and she is urged to do so not later than the fall of her junior year in secondary school so that her school program may be approved before it is too late to make schedule changes. Since rooms are assigned according to the date of application, there is an added advantage in early registration. The date of application is not, however, a factor in determining admission.

In selecting the freshman class, the Board of Admission reviews schools records, recommendations, information from the candidate concerning her interests and plans of study, and the results of the Scholastic Aptitude and Achievement Tests. From a large number of applicants a class of about four hundred is chosen. Candidates will receive notification of the results of their applications late in May.

Students who are interested in admission should read carefully the recommendations concerning secondary school subjects to be offered for entrance and the statement concerning the required College Board tests.

ADMISSION SUBJECTS

For admission to Wellesley College 16 units* of secondary school work are required. These units should be distributed mainly in the fields of English, foreign language, mathematics, history, and science.

Candidates are advised to plan their programs early in their high school course, taking into consideration the requirements for the B.A. degree which are described on pages 32 to 34. The Board of Admission will be glad to give advice or suggestions concerning the selection of school courses. A student who is not certain that her entrance units will be acceptable to Wellesley should write to the Board for information.

The courses listed below are recommended as providing a generally satisfactory basis for work at Wellesley College:

English . . . . . 4 units

Foreign Languages . . . . . 5 units

It is recommended that these 5 units be divided as follows: Latin or Greek, 3 units; a modern language (French, German, Spanish, or Italian), 2 units. Candidates from schools which recommend other language programs are asked to write to the Board of Admission for approval of the distribution of their units. No credit will be given for one unit of a foreign language.

Mathematics . . . . . 3 units

These units are to consist of Algebra, 2 units, and Plane Geometry, 1. The second unit of Algebra is completed in some schools in a half year. When only two units of mathematics are offered for entrance, one must be in Algebra, the other in Geometry.

History . . . . . 1 unit

This is the minimum requirement. The unit may be in any branch of history. European History is especially recommended for students interested primarily in languages, literature, and the arts.

Science . . . . . 1 unit

This unit may be in Biology, Physics, or Chemistry. General Science may be counted as one of the free elective units.

Elective subjects . . . . . 2 units

Additional units in any of the subjects listed above may be included; or courses in Art, Biblical History, and Social Studies, such as Problems of Democracy, Economics, or general survey courses, may make up the free units.

Music may be offered for one, two, or three units as follows: one unit, fundamentals of music; two units, fundamentals of music and literature of music, or fundamentals and practical music (literature of music and practical music may not be offered

* A unit represents one year's study in any one subject, constituting approximately a quarter of a full year's work.

except with fundamentals); three units, fundamentals of music, literature of music, and practical music.

Since Wellesley College is interested in having students from all parts of this country and from foreign schools, the need for having flexible entrance requirements is recognized. The Board of Admission welcomes from school principals information about unusual curricular plans or new courses which secondary schools recommend to their students or about changes in the curriculum which have been introduced recently. Unusual courses or entrance programs must have the approval of the Board before they can be accepted for admission.

The decision of the Board of Admission concerning a candidate will in all cases depend on the general excellence of her school record and recommendations and on her relative standing in the required entrance tests.

School Records

Complete records of a student's work in secondary school are required. Blanks for the preliminary records are sent to school principals a year in advance of the student's completion of preparatory work. Blanks for supplementary reports are sent during the year of final preparation for college.

The school record must be supplemented by statements from the school principal concerning the special abilities and interests of the student, power of sustained work, good health habits, integrity, sense of responsibility, initiative and self-reliance in work and in social action. The College wishes to be informed of circumstances which may have furthered or interfered with a student's work and of special honors and accomplishments during the student's secondary school course.

Tests for Admission

All candidates for entrance to the freshman class are required to take the Scholastic Aptitude Test and three Achievement Tests given by the College Entrance Examination Board. Application for these tests must be made directly to the College Board in Princeton, New Jersey, by the candidate herself. The dates for making application and the address of the Board are given below.

The Scholastic Aptitude Test, which includes both verbal and mathematical sections, is designed to test a student's general aptitude for college work. No special preparation for it is necessary. It is recommended that this test be taken by a candidate in June of her junior year in secondary school whenever this is possible.

Achievement Tests are given in English, Social Studies, four foreign languages, and three sciences. (See page 28 for the complete list of tests.) Candidates for admission to Wellesley are required to take the English Test and two others chosen from different fields. These tests should be taken in 1945 on April 7 so that the Wellesley Board of

Admission will have the results when it meets in May to select the freshman class. The Scholastic Aptitude Test may also be taken at this time if it has not been taken earlier.

Attention is called to the fact that the Achievement Tests are designed to be taken in stride without extensive review or extra study and without any speeding up of the school program. The result of each test is judged in relation to the number of years a candidate has spent studying the subject.

In addition to taking the Scholastic Aptitude and Achievement Tests, candidates from New York State may submit for admission their grades on the Regents' examinations. Candidates from foreign countries are expected to take the College Entrance Examination Board tests if it is possible for them to make arrangements to do so.

GENERAL INFORMATION CONCERNING COLLEGE ENTRANCE EXAMINATION BOARD TESTS

In 1944–45 the dates of the College Entrance Examination Board tests will be December 2, 1944, April 7, 1945, June 2, 1945, and September 5, 1945.

The following program of tests will be offered each time:

9:00 A.M.—Scholastic Aptitude Test, including a verbal and a mathematical section (three hours).

2:00 P.M.—Achievement Tests. Not more than three of the following one-hour tests:

English Composition	Spanish Reading
Social Studies	Biology
French Reading	Chemistry
German Reading	Physics
Latin Reading	Spatial Relations *

A Bulletin of Information containing rules for the filing of applications and the payment of fees, lists of examination centers, etc., may be obtained without charge from the College Entrance Examination Board. The Board does not publish a detailed description of the Scholastic Aptitude Test or the Achievement Tests. Brief descriptions are included in the Bulletin. A practice form of the Scholastic Aptitude Test will be sent to every candidate who registers for this test.

Candidates should make application by mail to the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey. Blank forms for this purpose will be sent to any teacher or candidate upon request. When ordering the forms, candidates should state whether they wish to take the December, April, June, or September tests.

In order to facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. Each application should be accompanied by the appropriate examination fee, which is four dollars for candidates who take only the Scholastic Aptitude Test and eight dollars for all other candidates.

* The Spatial Relations test is not recommended for Wellesley candidates.

When a candidate has failed to obtain the required blank form of application, the regular fee will be accepted if it arrives not later than the specified date and is accompanied by the candidate's name and address, the exact examination center selected, the college to which the report is to be sent, and the test or tests to be taken.

Applications and fees should reach the office of the Board not later than the dates specified in the following schedule:

For Examination Centers Located	*Dec. 1944 Series*	*April 1945 Series*	*June 1945 Series*	*Sept. 1945 Series*
East of the Mississippi River or on the Mississippi	Nov. 11	March 17	May 12	Aug. 15
West of the Mississippi River or in Canada, Mexico, or the West Indies	Nov. 4	March 10	May 5	Aug. 8
Outside of the United States, Canada, Mexico, and the West Indies	Oct. 21	Feb. 24	April 21	July 25

Belated applications will be subject to a penalty fee of three dollars in addition to the regular fee.

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges will, in turn, notify the candidates of the action taken upon their applications for admission. Candidates will not receive reports upon their tests from the Board.

SUMMARY OF PROCEDURE

The following dates should be observed by all candidates for admission to the freshman class in 1945:

1. Information blanks sent out by the College should be filled in and returned within two weeks after they are received.
2. Before March 15, scholarship applications and requests for financial aid should be filed in the office of the Dean of Freshmen. (A scholarship application blank must be obtained in advance. For information on basis of award, see page 163.)
3. Applications for the Scholastic Aptitude and Achievement Tests to be taken on Saturday, April 7, 1945, should be sent to the College Entrance Examination Board in March or earlier. The exact dates on which applications are due appear above.
4. Health certificates, on the blank provided by the College, are due not later than April 1. The health certificates must be complete and approved by the health department at the College before a candidate's entrance credentials are complete.
5. Three photographs are also due by April 1. These should be of standard passport size, glossy prints if possible. They should show head and shoulders only. The candidate's name and address must appear on the back of each picture.

ADMISSION TO ADVANCED STANDING

If a student has maintained an excellent record in a recognized college and has special interests which she can follow at Wellesley College, she may apply for admission to the sophomore or the junior class. The number of students who can be admitted with advanced standing in any year, however, is very limited, and only students with unusually strong records are encouraged to apply.

A form for making application for admission should be obtained from the Chairman of the Board of Admission before May 1 of the year of entrance. A registration fee of ten dollars is required of all candidates. This fee cannot be refunded if a student is not admitted. A candidate must have completed the work recommended for admission to the freshman class (see page 26) and at least a full year of highly satisfactory work at another college. She should be entitled to honorable dismissal from the college which she has attended and should be recommended by her instructors.

All candidates for admission to advanced standing are required to take the Scholastic Aptitude Test of the College Entrance Examination Board. Applicants who have taken this test should request the College Board to send the results to Wellesley College. Those who have not taken it should plan to do so as soon as possible. Information concerning application for the test is given on page 27 of this Catalogue. Other aptitude tests are not acceptable as substitutes.

A student must be in residence at least two years at Wellesley College to obtain the B.A. degree, one of which must be the senior year. The work of these two years must include all the prescribed work (see page 33) not covered by the credentials submitted and such courses as are needed to meet the requirements for distribution and concentration (see page 33). Credit for courses completed at another college is tentatively granted early in the first year of residence. The final determination of credit is not made until the end of the year since the success of advanced standing candidates with work at Wellesley is an important consideration in deciding upon credit.

The selection of applicants for admission with advanced standing will be made in July of the year in which entrance is desired.

ADMISSION OF CANDIDATES FOR THE M.A. AND M.S. DEGREES

Candidates for the degree of Master of Arts, Master of Arts in Education, or Master of Science in Hygiene and Physical Education must be graduates of Wellesley College or of other institutions of satisfactory standing, and must present adequate credentials signifying their ability to carry on the work for the degree.

Application for admission as a graduate student in any department should be made upon forms which will be furnished by the Dean of Graduate Students on request. It is desirable that the application be

sent by March first of the year in which the student proposes to enter. It should be accompanied (1) by the official record of courses and grades, (2) by a copy of the catalogue of the institution attended, marked to indicate the courses taken.

Graduate scholarships are described on page 167.

For requirements for the M.A. and M.S. degrees see page 37. A circular containing full information for graduate students will be sent on application to the Dean of Graduate Students.

Admission of Candidates for the Certificate in Hygiene and Physical Education

A two years' course, especially designed for the training of teachers of hygiene and physical education, and leading to the certificate of the Department of Hygiene and Physical Education, is offered to graduates of approved colleges who meet the requirements. Full information will be found on page 106.

Correspondence should be addressed to the Dean of Graduate Students.

DEGREES

The following degrees are conferred by the Trustees upon recommendation of the Academic Council:

Bachelor of Arts.
Master of Arts.
Master of Arts in Education.
Master of Science in Hygiene and Physical Education.
Certificate in Hygiene and Physical Education.

Requirements for the B.A. Degree

In constructing the curriculum of which the requirements are given below, the faculty was guided by a belief that a student's four years in college should give her several specific sorts of training. The *prescribed work* is planned to assure her possession of certain skills which are of general use, and to add to the information which she has acquired before coming to college further information considered of fundamental importance. Thus the prescribed work in English Composition and Speech is designed to assure her having accuracy and effectiveness in speaking and writing English. The prescription in Hygiene affords the student a knowledge of the laws of health. The prescribed work in Biblical History gives a knowledge of the historical basis of Christianity.

The requirement of *work for distribution* is made with the purpose of securing for each student some acquaintance with methods of work and ways of thinking in various representative fields of knowledge. The requirement of *work for concentration* is made in order that the student shall make a reasonably thorough study of one field of knowledge. The curriculum is so planned that a student has the opportunity to elect without restriction a number of courses to suit her individual need and interest.

Every candidate for the B.A. degree must complete before graduation the equivalent of one hundred and twenty semester hours, and have in addition a reading knowledge of one of the following: French, German, Greek, Italian, Latin, Spanish.

The test of the reading knowledge of one of these foreign languages consists in the attainment of a sufficiently high score in the College Entrance Examination Board Achievement Test in French, German, Latin, or Spanish, or in the examination given by Wellesley College in Greek or Italian. Students may gain exemption from further tests by obtaining a good rating in the College Board test submitted for admission. In general the choice of the language to be offered is left to the student, but any department offering work for a major may require its major students to pass the examination in one particular language or in one of any two or more specified languages. Students majoring in a foreign language will be tested in a reading knowledge of a second language; in this case students may postpone the examination until the beginning of the senior year.

Of the one hundred and twenty semester hours required for the B.A.

degree a certain number is prescribed; a certain number must be elected to fulfill the requirements of *work for distribution* and *work for concentration;* the rest is free elective.

I. PRESCRIBED. The following subjects are required as specified:

Biblical History (in the sophomore year)	6 hours
English Composition (unless exempted for the second semester by the department)	6 * "
Hygiene and Physical Education 120 (unless exempted by examination)	2 "
Hygiene and Physical Education (practical)	2 † "
Speech (unless exempted by examination)	2 "

Of the required subjects, English Composition, six hours, must be taken in the freshman year; Hygiene and Physical Education, three hours in the freshman year, and one hour in the sophomore year; Biblical History, six hours, in the sophomore year; Speech, two hours, before the junior year.

II. WORK FOR DISTRIBUTION. Twelve hours in addition to the prescribed work, to be elected in each of the three groups given below. The twelve hours in each of the three groups are to be elected so as to fall six hours in one department and six hours in one or two other departments. Only one beginning course in a modern language may be counted for distribution.

Group I. Art, English Composition, English Literature, French, German, Greek, Italian, Latin, Music, Russian, Spanish, Speech.

Group II. Biblical History, Economics, Education, History, Philosophy, Political Science, Psychology, Sociology.

Group III. Astronomy, Botany, Chemistry, Geology and Geography, Mathematics, Physics, Zoölogy and Physiology.

Every freshman must take for distribution six hours in each of two groups; and every student is required to have had by the end of her sophomore year at least six hours counting for distribution in each group.

III. WORK FOR CONCENTRATION. Forty-two semester hours in one field of concentration, of which a major of twenty-four to thirty hours shall be in one department, and eighteen to twelve hours shall be in courses related or supplementary to the major but falling in one or more departments other than that in which the major is taken.‡

All courses are classified in grades I, II, III; grade I indicating elementary courses and grade III the most advanced courses. Of the courses offered to fulfill the requirement of *work for concentration* at least six hours of grade III must be taken in the senior year. Of the forty-

* If a student fails to pass with a grade of at least C in the second semester of English Composition 101, she will be required to take an additional semester course in the sophomore year.

† These two hours in Hygiene and Physical Education are met by four periods in practical work, two periods per week in the freshman year and two in the sophomore year.

‡ In the interpretation of this requirement the departments of Geology and Geography, English Composition and English Literature shall count in each case as two departments.

two hours required at least eighteen hours must be above grade I and at least twelve hours must be of grade III.

Every candidate for the B.A. degree must pass a general examination in a major subject in addition to the regular course examinations.

COURSE EXAMINATIONS

An examination period occurs at the end of each semester. Examinations for the removal of conditions and deficiencies and for advanced standing may be taken during any examination period and at other specified times.

A student who wishes to take an examination upon a course which is not a part of her approved schedule for the year, must apply to the College Recorder for the requisite card of admission to the examination.

STANDARD FOR GRADUATION

A certain quality grade is required for graduation and, for the purpose of determining this quality grade, numerical values called "points" are given to the grade letters as follows: for grade A, three points for each semester hour of the course in which the grade is received; for grade B, two points; for grade C, one point; for grade D (passing), no points; for a grade below D, no points and not counted in hours toward a degree. In order to be recommended for the degree of Bachelor of Arts a student must in each semester attain as many quality points as the hours she carries, i.e., a credit ratio of 1.0. (The credit ratio is the ratio of the number of quality points earned to the semester hours carried.) Deficiency of points in any semester may be made good only in accordance with regulations adopted by the faculty. In general, students who are deficient in quality points at the end of the third year or who are otherwise not of diploma-grade standing will not be permitted to continue.

The College reserves the right to require the withdrawal of students whose academic standing is not satisfactory, and of those who for any other reason have shown themselves to be not in accord with the ideals and standards which the College seeks to maintain.

HONORS IN A SPECIAL FIELD

Recognition of the desire of certain students to carry on consecutive and somewhat intensive work along the line of their particular interests has led to the introduction of a plan for Honors in a Special Field.

A student electing to study for Honors will choose a Field of Special Study and will work in that field under the direction of one or more of the instructors concerned who will advise her on the possible development of her field and will guide her in the carrying on of independent work within it.

Students who wish to become candidates for Honors may apply in the spring of their sophomore or junior year to the committee appointed to consider these applications.

DEPARTMENTAL HONORS

A plan for Departmental Honors has been established to enable certain students to enrich the work of the major subject by engaging in a program of supplementary directed work in the senior year. A candidate for Departmental Honors will carry a normal senior program supplemented by work in the major subject done under the special direction of one or more instructors. The supplementary work will be planned to suit the needs and interests of the individual student.

GENERAL INSTRUCTIONS FOR SELECTING COURSES

The program in the freshman year is as follows:

English Composition 101	6 hours
Hygiene 120	2 hours
Hygiene 121 (practical work 2 hours)	1 hour
Electives, 4 six-hour courses	24 hours
Total	33 hours

The courses must be chosen in accordance with the prerequisites given in the department statements from the list of courses named below, with the provision that one course must be chosen from each of two of the three groups described below. It is unwise to include two beginning courses in modern language.

ELECTIVE COURSES OPEN TO FRESHMEN, ARRANGED BY GROUPS

Group I. Art 101, 102, 103, English Literature 101, 103, French 101, 102, 103, 104, 105, 201, 202, 208, German 101, 102, 104, Greek 101, 104, 201, 202, 205, Italian 101, 102, 201, 202, 205, 206, 207, Latin 101, 103, 104, 105, 106, 107, Musical Theory 101, 102, 201, 203, 208, Russian 100, Spanish 101, 102, 104, Speech 101, 104, 105.

Group II. Economics 101, History 101, 102, Philosophy 103, 104, 107, 108, Political Science 100, Psychology 101*, 103*, Sociology 102.

Group III. Astronomy 101, Botany 101, 202, 203, 204, 206, Chemistry 101, 103, Geology 101, 102, 103, Mathematics 105, 106, 107, Physics 101, 104, 105, 201, 203, Zoölogy 101, 102.

If thirty-three hours are satisfactorily completed in the freshman year, the normal program for the remaining years would be as follows:

Sophomore year	33 hours
Junior year	30 "
Senior year	24 "

If thirty-three hours are not completed in both the freshman and sophomore years, it will be necessary for a student to attend summer school or to carry more hours in the junior and senior years than specified above, subject to certain regulations.

Elective courses must be chosen with great care so that changes will

* Requires special permission of Dean of Freshmen.

not be necessary. Students are held responsible for observing the requirements for the degree and the proper sequence of courses.

PREPARATION FOR WAR AND POSTWAR SERVICE

In the present crisis each student will wish to prepare for usefulness in the war effort and at the same time to educate herself to bear a responsible part in furthering the best in our national life both now and after the war. Many will wish to have a definite part in reconstruction work. These aims need not be in conflict if programs of study are planned intelligently. Each student should choose the major subject best suited to her abilities and interests since by so doing she will achieve her best intellectual development. Study in certain fields, notably the sciences, the social sciences, and the modern languages, may prepare for essential war work in industry or government, or for service in the period of reconstruction. The student whose major study is not directed to these ends may in her free electives or in extracurricular courses prepare for useful work upon graduation. The attention of all students is called to the critical shortage of teachers. Graduates of the liberal arts colleges are especially well qualified to meet the need for this important work.

For all students it is especially necessary to plan a carefully coordinated program since certain combinations of courses lead directly to important work requiring college preparation. The class deans, members of the faculty, and the secretaries of the Placement Office will gladly give information and assistance to students in making their plans.

Provision is made for individual students to complete the work for the degree in three or three and one-half years by carrying extra hours and by attending summer sessions at colleges of recognized standing.

The curriculum, described in this bulletin, will be supplemented by extracurricular courses sponsored by the Committee on War Activities and directed toward the war effort. The extracurricular program will include the following courses: First Aid, Current Events, Typewriting and Shorthand.

PRE-PROFESSIONAL COURSES

Students who plan to apply for admission to professional schools after leaving Wellesley College should consult their class deans about appropriate electives early in the course.

Each student who is planning to study medicine is advised to confer with her class dean before the beginning of her sophomore year. Entering students are advised to elect two pre-medical sciences in the freshman year. In general, requirements for admission to medical schools of Class A can be met by eighteen hours in Chemistry and twelve hours in Physics and Zoölogy respectively, but each student is advised to study carefully the requirements for the particular school which she has chosen. Attention is called to the fact that twenty-four hours are re-

quired as a basis for the general examination in any department. It is, however, possible to fulfill the minimum requirement for medical schools, and to take the general examination in an entirely different field.

Students planning to prepare for work in hospital or public health laboratories should begin both Chemistry and Zoölogy in their freshman year in order to have the necessary foundation for advanced courses. The departments of Botany, Chemistry, Physics, and Zoölogy should be consulted concerning combinations of courses in later years of the college course.

Preparation for Teaching

A student wishing special preparation for teaching may plan a five year integrated course leading to a Bachelor of Arts at the end of the fourth year and a Master of Arts in Education at the end of the fifth. The courses in a student's field of concentration and her free electives will be chosen to provide preparation in the subjects which she especially desires to teach. Her program will include also courses in Education which will enable her to meet requirements for certification in many states. Practice teaching will be included in the work of the fifth year.

Requirements for the M.A. and M.S. Degrees

Wellesley College offers graduate work leading to the degrees of Master of Arts, Master of Arts in Education, and Master of Science in Hygiene and Physical Education. The work required of a candidate is considered to be the equivalent of twenty-four hours of college work. In general, a candidate is required to work in one department. The program includes no fewer than two full courses of Grade III or their equivalent, and may include a thesis embodying the results of original research or reports based on independent work. A candidate for a Master's degree is required to have a working knowledge of either French or German, to be tested by examination *at entrance*. Individual departments may require a second language. At least one year of graduate study is required of all candidates, but more time may be needed for the completion of the work. One year in residence is required of all candidates except graduates of Wellesley College who have done the work at some institution which does not grant a Master's degree to women.

Information regarding requirements for admission, theses, final examinations, etc., will be found in the Graduate Circular which will be sent on application to the Dean of Graduate Students.

COURSES OF INSTRUCTION

1944–45

THE following courses of instruction are offered by the several departments. The College reserves the right to withdraw the offer of any course not chosen by at least six students.

All courses are classified in grades I, II, III; grade I indicating elementary courses and grade III the most advanced courses. Grade I courses are numbered 101, etc.; grade II courses 201, etc.; grade III courses 301, etc.

The first semester is indicated by (1) following the course number, the second semester by (2). Courses not so designated are year courses.

ART

Professor: SIRARPIE DER NERSESSIAN,[1] DOCTEUR ÈS LETTRES.
DIRECTOR OF THE ART MUSEUM.
Associate Professors: WILLIAM ALEXANDER CAMPBELL,[W] M.F.A.
LAURINE MACK BONGIORNO,[1] PH.D.
AGNES ANNE ABBOT.
Assistant Professor: BERNARD CHAPMAN HEYL, M.F.A. (Chairman)
Instructors: SARA ANDERSON IMMERWAHR, PH.D.
ARNOLD GEISSBUHLER.
ELIZABETH HOLMES FRISCH.
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WALTER LITTLEFIELD CREESE,[5] B.A.
Cataloguer: EDITH MOORE NAYLOR, M.A.
Lecturer: ALFRED SALMONY,[4] PH.D.

Art Museum

Secretary: CELIA HOWARD HERSEY, B.A.
Assistant: ALICE CHURCHILL MOORE.

HISTORY OF ART

Many of the courses in Art include some laboratory work in the one or more mediums with which the course is concerned. The department believes that laboratory training has great value in developing observation and understanding of problems of art, and for this reason requires it of majoring students. It should be stated, however, that no particular natural aptitude is required and that the work is scaled to the student's ability.

101. INTRODUCTORY COURSE I: ANCIENT, EARLY CHRISTIAN, AND ITALIAN ART.

A foundation for further study of the history of art, leading directly to course 205, but complete in itself, having for its theme classic art, its antecedents and its part in later Italian art. First semester: Greek art, its predecessors in Egypt, Mesopotamia and Ægean lands, and the art of pagan Rome. Second semester: the art of the Italian Renais-

[W] Absent on war service.
[1] Absent on leave.
[4] Appointed for the first semester only.
[5] Appointed for the second semester only.

sance with introductory studies in Early Christian and Byzantine art. Laboratory work: drawing, sketching from the living model, water color, and modeling.

Open to all students except those who have completed or are taking 102 or 215. Six hours. MRS. IMMERWAHR, MRS. FRISCH.

102. ANCIENT, EARLY CHRISTIAN, AND ITALIAN ART. (Not given in 1944–45.)

In general the same ground as in 101, but without laboratory work.

Open to freshmen and sophomores. Not open to students who have completed or are taking 101. This course may be offered as prerequisite for 205 if supplemented by 104 or an equivalent. Six hours. MRS. IMMERWAHR.

205. INTRODUCTORY COURSE II: MEDIÆVAL, RENAISSANCE, AND MODERN ART.

First semester: Mediæval art, with emphasis on Romanesque and Gothic architecture and sculpture in France; Northern painting of the XV and XVI centuries. Second semester: European art from the XVII century to the present day, with emphasis on painting. Laboratory work, including modeling and oil painting.

Prerequisite, 101 or an equivalent. Not open to students who have completed or are taking 216. Six hours. MR. HEYL, MR. MAYHEW, MRS. FRISCH.

207 (1). ART OF THE FAR EAST.

A study of the art of India, China, and Japan, with particular emphasis on the civilization of China. No laboratory work.

Open to juniors and seniors without prerequisite. Three hours. MR. SALMONY.

209 (1). ART OF THE ROMAN EMPIRE. (Not offered in 1944–45.)

The major monuments of architecture, sculpture, and painting throughout the Roman Empire from the formation of the Roman style to the beginning of the Byzantine. No laboratory work.

Open to sophomores who have completed 101 or 102, and to juniors and seniors without prerequisite. Three hours. MR. CAMPBELL.

211 (1). MOSLEM ART. (Not offered in 1944–45.)

Architecture, sculpture, painting, and minor arts of the Moslem people, beginning with the time of the khalifs of Damascus and of Bagdad, and continuing to the XVIII century. Monuments of Syria, Asia Minor, Persia, North Africa, Spain, and Turkey, with special emphasis on the decorative arts. No laboratory work.

Open to juniors and seniors without prerequisite. Three hours. MISS DER NERSESSIAN.

212 (2).† SPANISH ART.

Architecture, sculpture, painting, and minor arts of Spain from the period of classical influence to the present day. Emphasis on architec-

† Offered in alternate years.

ture and painting, special attention being given to the great painters of the later period: El Greco, Velasquez, Ribera, Zurbarán, and Goya. No laboratory work.

Open to juniors and seniors without prerequisite. Three hours. MR. HEYL.

215 (1). RENAISSANCE ART.

The art of the Italian Renaissance, with emphasis on painting. No laboratory work.

Open to juniors and seniors who have not taken 101 or 102. Three hours.
MR. MAYHEW.

216 (2). POST-RENAISSANCE AND MODERN ART.

European art from the beginning of the XVII century to the present day. No laboratory work.

Open to juniors and seniors who have not taken 205. Three hours.
MR. MAYHEW.

302 (1). FLORENTINE AND UMBRIAN PAINTING OF THE RENAISSANCE.

The development of Florentine and Umbrian painting of the Renaissance beginning with Cimabue and Giotto in the late XIII century and culminating with Michelangelo and Raphael in the XVI century. Problems connected with Giotto, Masaccio, Leonardo, and Michelangelo.

Open to juniors and seniors who have completed or are taking 205. Three hours. MR. HEYL.

303 (2). RENAISSANCE PAINTING IN NORTH ITALY.

The development of painting in North Italy from the XIV through the XVI century. Special emphasis on Venetian painting, with some consideration of other centres of painting in North Italy such as Padua, Parma, Ferrara, Bologna, Milan, and Verona.

Prerequisite, 302. Three hours. ——— ———.

304 (1). THE ARCHITECTURE OF THE RENAISSANCE. (Not offered in 1944–45.)

The period from the dissolution of the mediæval styles to the appearance of revival styles in the XVIII century, with emphasis on Italy and France. Some laboratory work.

Open to juniors and seniors who have completed 205. Three hours.

305 (1). MODERN PAINTING.

A study of the development of French painting in the XIX and XX centuries with some consideration of contemporary movements in different countries. Practical experiments in composition, form, and color as a basis for the study of modern characteristics.

Open to seniors who have completed 205, and to juniors who have completed 205 and have taken or are taking 303, 311, or 313. Three hours. MR. HEYL.

306 (2). ENGRAVING AND ETCHING FROM THE RENAISSANCE TO THE PRESENT TIME. (Not offered in 1944–45.)

The rise and development of engraving and etching including comparisons with the allied arts of woodcutting, mezzotinting, and lithographing, and a brief study of technical processes. Frequent visits to the Boston and Fogg museums.

Open to juniors and seniors who have completed or are taking 205. Three hours. MRS. BONGIORNO.

307 (1).† STUDIES IN MEDIÆVAL ART.

Problems in style and technique of mediæval fresco, tempera, and manuscript illumination, involving the study of Italian miniatures, panels, and frescoes of the Middle Ages.

Open to juniors and seniors who have completed 205. Three hours.

MISS ABBOT.

309 (2). MODERN ARCHITECTURE.

Analysis of the development and variety of architectural styles of the modern period, beginning with the revival styles of the XVIII century and concluding with the integration of the new materials and methods of construction in the architecture of the present day. Emphasis on American architecture, tracing its beginnings in the Colonial period. No laboratory work.

Open to juniors and seniors who have completed 205. Three hours.

MR. CREESE.

310. MEDIÆVAL, RENAISSANCE, AND MODERN SCULPTURE.

First semester: a study of the development of European sculpture with emphasis upon its character in the Romanesque and Gothic periods. Second semester: the sculptural expression of the Renaissance, including analyses of some modern trends. Laboratory work, including modeling from life to develop a better understanding of the conventions of sculpture.

Open to juniors and seniors who have completed 205. Six hours. Either semester may be counted as a semester course.

MRS. PHELPS, ——— ———.

311 (2). PAINTING OF NORTHERN EUROPE.

The period from 1300 to 1600 in France, Germany, the Low Countries, and the XVII century in Flanders and Holland.

Open to juniors and seniors who have completed 205. Three hours.

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313 (2).† ART OF THE SEVENTEENTH CENTURY. (Not offered in 1944–45.)

Architecture, sculpture, and painting of the XVII century, considered from three points of view: the rise and development of these arts.

† Offered in alternate years.

the iconography of the period, and the general principles underlying the baroque style. In architecture and sculpture, emphasis will be on Italy, with Bernini as the leading figure; in painting, the development in Italy will be traced and this painting related to the work of contemporary artists such as El Greco, Poussin, Rubens, and Rembrandt. No laboratory work.

Open to juniors and seniors who have completed 205. Three hours.

MR. HEYL.

314 (1).† BYZANTINE ART. (Not given in 1944–45.)

Mosaics and paintings of Byzantine, Bulgarian, Serbian, and Russian churches from the VI to the XIV century. Problems in style and iconography with opportunities for independent work and comparative studies with Italian art.

Open to juniors and seniors who have completed 205, 209, or 320. Three hours.

MISS DER NERSESSIAN.

318 (1). STUDIES IN EGYPTIAN, NEAR EASTERN, AND PREHELLENIC ART. (Not offered in 1944–45.)

Life and thought in the Eastern Mediterranean, Mesopotamia, and Persia as expressed in art. Careful consideration of recent excavations. No laboratory work.

Open to juniors and seniors who have completed or are taking a grade II course in Art, Biblical History, Greek, Latin, or History. Three hours.

MISS DER NERSESSIAN.

320. GREEK SCULPTURE.

First semester: a study of the development of Greek sculpture from its origins to the classical period. Second semester: the work of the great masters of the IV century and the sculpture of the Hellenistic period. Laboratory work, consisting largely of modeling and carving.

Open to juniors and seniors who have completed or are taking 205 or History 203 or a grade II course in Greek or Latin. Six hours. The first semester may be counted as a semester course.

MRS. IMMERWAHR.

322 (1). FRENCH GOTHIC ARCHITECTURE. (Not offered in 1944–45.)

A close study of ecclesiastical architecture in the various regions of France from 1125 to 1525, with opportunity for independent work. Reading knowledge of French essential. No laboratory work.

Open to juniors and seniors who have completed 205. Three hours.

325 (2). CRITICAL STUDIES IN ART.

Important types of problems studied through material selected from the entire range of art history.

Open to seniors who have completed or are taking twelve hours of grade III or, by permission, to seniors who have completed twenty-four hours in Art. Three hours.

MR. HEYL.

† Offered in alternate years.

350. RESEARCH OR INDIVIDUAL STUDY.

Independent work on special problems under direction of one or more members of the department.

Open, by permission, to juniors and seniors who have completed or are taking a course of grade III. Three hours for a semester or six hours for a year.

STUDIO COURSES

Six hours of studio work may count toward the degree after six hours in the History of Art have been completed; and twelve hours after twelve hours in the History of Art have been completed.

103. STUDIO PRACTICE.

Modeling, drawing, sketching, and painting (oil and water color).

Open to sophomores, juniors, and seniors, and, by permission, to freshmen who have studied art before entering college. Six periods of class instruction and three of studio practice, counting six hours. This course may count toward the degree after one full course in the History of Art has been completed.

MISS ABBOT, MR. GEISSBUHLER.

104. LABORATORY.

Elementary studies in drawing, modeling, and water color, planned for those who are conscious of no talent in practical art. The same ground is covered as in the laboratory work of 101 and the course should, therefore, be elected by students who have taken 102 instead of 101 and wish to major in Art. The purpose is to develop informed appreciation through practical study of the elements of the artist's technique, and to train students of the History of Art in quick sketching and the use of color for recording observation.

Open to sophomores, juniors, and seniors who have not taken 101 or 103. One period of class instruction and two of studio practice, counting two hours. This course may count toward the degree after one full course in the History of Art has been completed. MRS. FRISCH.

204 (1). DESIGN.

The organization of spatial and tonal factors studied by means of a series of problems which deal with the planning of decoration for important types of areas.

Open to sophomores, juniors, and seniors who have completed 101, 103, or 104. Six periods of class instruction and three of studio practice, counting three hours. This course may count toward the degree after one full course in the History of Art has been completed. MISS ABBOT.

208 (2). COMPOSITION.

Principles of design related to various types of composition, in conjunction with direct study from the human model, still life, or landscape. Problems may take the form of book illustration, painting and mural decoration, decorative sculpture, etc.

Prerequisite, 204. Six periods of class instruction and three of studio practice, counting three hours. This course may count toward the degree after one full course in the History of Art has been completed. MISS ABBOT.

DIRECTIONS FOR ELECTION

Courses 101 and 205, followed by grade III courses, form the usual sequence for a major in Art. 102 may be substituted for 101 if supplemented by 104. A reading knowledge of French or German is required of students majoring in Art; under certain circumstances Greek, Italian, Latin, or Spanish may be substituted by permission of the department. Students who are planning to do graduate work should have both French and German.

Students interested in classical archæology are referred to the statement on page 60 in regard to a major in that field.

GENERAL EXAMINATION

The general examination will be in two parts, two hours and a half in the morning (with slides or photographs) and two hours and a half in the afternoon.

It will be designed to test:

(1) Knowledge of outstanding examples from earliest times to the present day.

(2) A general comprehension of the relations of the different styles and periods.

(3) Ability (*a*) to make use of visual material in presenting a subject; (*b*) to perceive the value of evidence; (*c*) to coördinate material and present it logically.

ASTRONOMY

Professor: JOHN CHARLES DUNCAN, PH.D. (Chairman)
Assistant Professor: HELEN WALTER DODSON[w], PH.D.
Assistants: LOUISE YOUNG THOMAS, B.A.
MIRIAM LOUISE JOLLEY, B.A.
Custodian: KATHARINE BULLARD DUNCAN.

101. DESCRIPTIVE ASTRONOMY.

A general survey of the facts of astronomy, of the methods by which they are obtained and of the theories that account for them; facts with which every educated person should be familiar in order to understand the astronomical allusions occurring in literature and to be alive to the beauty of the order that is about us.

Open to all undergraduates. Three lecture appointments, one two-hour laboratory appointment, and an average of about an hour of evening observations. Six hours. At times, an evening meeting of the class is substituted for a daytime appointment. MR. DUNCAN AND ASSISTANTS.

[w] Absent on war service.

206 (2). THE HISTORY OF ASTRONOMY. (Not offered in 1944–45.)

Development of the science from ancient times to the present, with special emphasis on the period since Copernicus.

Prerequisite, 101. Three hours.

207 (1). PRACTICAL ASTRONOMY. (Not given in 1944–45.)

Practice in the use of astronomical instruments and methods: the equatorial telescope; elements of celestial navigation.

Prerequisite, 101. Three hours. This course involves both daytime and evening work at the Observatory. MR. DUNCAN, MRS. THOMAS.

208 (2). PRACTICAL ASTRONOMY. (Not given in 1944–45.)

Determination of time, longitude, and latitude; astronomical principles of navigation.

Prerequisite, 101 and a knowledge of trigonometry. Three hours. This course involves both daytime and evening work at the Observatory.

MR. DUNCAN, MRS. THOMAS.

300 (1). STELLAR ASTRONOMY.

Studies of the number, brightness, distribution, and motions of the stars; double and variable stars; structure of the Galaxy; extra-galactic systems.

Open to juniors and seniors who have completed 101 and who have a knowledge of trigonometry. Three hours. MR. DUNCAN.

301 (2). ASTROPHYSICS.

Astronomical spectroscopy; the laws of radiation; determination of radial velocities; physical properties and constitution of the stars.

Prerequisites, 101 and Physics 301. Three hours. When combined with Physics 301 it may be counted toward a major in Astronomy or Physics.

MR. DUNCAN.

302. DETERMINATION OF ORBITS. (Not offered in 1944–45.)

Equations of motion of two gravitating bodies. Determination, from three observations, of the elliptic and parabolic orbits of bodies in the Solar System. Orbits of binary stars.

Prerequisite, 101 and a knowledge of calculus. This course may be counted toward a major in either Astronomy or Mathematics. Six hours.

MR. DUNCAN.

303. CELESTIAL MECHANICS. (Not offered in 1944–45.)

The attraction of bodies of various forms under Newton's law of gravitation. The problems of two and of three bodies. Perturbations.

Prerequisite, differential and integral calculus. Six hours. MR. DUNCAN.

304. ASTRONOMICAL SEMINAR. (Not offered in 1944–45.)

Open to graduate students. Ordinarily, six hours. MR. DUNCAN.

350. RESEARCH OR INDIVIDUAL STUDY.

Work under one or more members of the department on subjects to be determined by the interests and capabilities of the individual student. This course may be taken repeatedly.

Open, by permission, to graduates and other advanced students. Two or three hours for a semester, or two to six for a year. The amount of work contemplated must be indicated at the time of handing in electives.

DIRECTIONS FOR ELECTION

All students who desire a general knowledge of astronomy and of the universe around them as a part of their general education should elect 101. Those for whom this course is insufficient but who would avoid technicalities may well continue with 207 or 206.

A major in Astronomy should ordinarily include 101, 207, 208, 300, 301, and 302. This combination of courses demands as prerequisites twelve hours in Mathematics and nine hours in Physics. Of the six languages listed for the language reading requirement, the department prefers (but does not insist upon) French or German.

Astronomy 301 may be counted toward a major in Physics, and Astronomy 302 toward a major in Mathematics.

GENERAL EXAMINATION

The general examination in Astronomy will be based upon the combination of courses which the student has taken as a major. A choice of questions will always be allowed. In addition to the written questions, there will be an opportunity for the student to show her familiarity with the use of astronomical instruments.

BIBLICAL HISTORY, LITERATURE, AND INTERPRETATION

Professors: LOUISE PETTIBONE SMITH,[w] PH.D.
MURIEL STREIBERT CURTIS, B.A., B.D.
Associate Professors: KATY BOYD GEORGE, M.A. (Chairman)
PAUL LOUIS LEHMANN, TH.D.
Instructors: ROBERT MAURICE MONTGOMERY, B.A., B.D.
ERNEST RENÉ LACHEMAN, B.D., PH.D.
MARY LUCETTA MOWRY, M.A., B.D.
Lecturers: HERBERT JOHANNES GEZORK, PH.D., D.D.
HERBERT MORRISON GALE, S.T.B., PH.D.

The requirement in Biblical History is met by course 104. Students with a knowledge of Greek may substitute course 210 for the second semester of 104.

104. STUDIES IN THE OLD AND NEW TESTAMENTS.

First semester: selected parts of the Old Testament. Aims: (1) Some comprehension of the religion which prepared the way for Christianity and which is one of the principal influences that have shaped our civilization. (2) Familiarity with some of the prose and poetry of a

[w] Absent on war service.

great classic. (3) Some understanding of scholarly methods of handling Biblical material. (4) A perspective in religious thinking which may aid in building a foundation for the student's own religion.

Second semester: a study of Jesus as he is presented in the first three gospels. The aim is to examine the environment in which he lived, to study the events of his life from the historical point of view, to understand his teaching, and to discover his abiding significance.

Required of sophomores except as indicated above. Six hours.

MRS. CURTIS, MISS GEORGE, MR. LEHMANN, MR. GALE, MR. MONTGOMERY, MR. LACHEMAN, MISS MOWRY.

203. ELEMENTARY HEBREW.

The elements of Hebrew grammar, with practice in translation and the memorizing of a vocabulary. Reading of selections from the Old Testament. At the end of the course the student should be able to read simple Hebrew and to use the language in the study of the Old Testament.

Open to juniors and seniors. Six hours.

204 (1), (2). THE BEGINNINGS OF CHRISTIANITY.

This course is designed to enable those students who have already studied the life of Jesus in 104 to complete their study of the New Testament and to see the principles of Jesus at work as they came in contact with the life of the Græco-Roman world. The rise and earliest development of the Christian religion. Emphasis upon the thought of Paul and of the Fourth Gospel.

Prerequisite, 104 or 210. Three hours.

MR. LEHMANN, MR. MONTGOMERY.

206 (1). TEXT STUDIES OF NEW TESTAMENT BOOKS. (Not offered in 1944–45.)

The development of Paul's theology, including such topics as Paul's theology as a Pharisee: his conception of God, sin, salvation; his experience of Christ; his later theology. Parts of the following books will be read in Greek: Acts, I and II Corinthians, Romans, Philippians, Galatians.

Prerequisite, 210. Three hours. MISS GEORGE.

207. HISTORY OF RELIGIONS.

The history of religions from the earliest historical period through such leading religions of today as Hinduism, Buddhism, and Mohammedanism, including a study of comparative developments and values.

Open to juniors and seniors who have completed the required work in Biblical History. Six hours. MR. LACHEMAN.

208 (1), (2). SURVEY OF THE APPLICATION OF CHRISTIAN ETHICS TO SOCIAL PROBLEMS.

A study of the attitudes of the Christian church toward social and

political problems in certain periods of her history, past and present. An investigation of the opportunity of modern Christianity as an agent of social reconciliation and reconstruction in the light of the teachings of Jesus and the developments of history.

Open to students who have completed the required work in Biblical History and who have taken or are taking Economics 101, History 101 or 102 or any other course in mediæval or modern history, or Sociology 102. Three hours.

MR. GEZORK.

210 (2). THE FIRST THREE GOSPELS IN GREEK.

This course covers the same material as the second semester of 104, and is planned for those students who, in fulfilling the Biblical History requirement, prefer to study the gospels in Greek rather than in English translation.

Open to students who have completed the first semester of 104 and have completed or are taking a grade II Greek course. Students choosing this way of fulfilling the requirement in Biblical History may postpone the work until their junior year without special permission. Three hours. MR. MONTGOMERY.

211 (1). THE OLD AND NEW TESTAMENTS IN THE LIGHT OF ARCHÆOLOGY.

The results of archæology in their bearing upon Biblical history and religion. Emphasis upon the value of archæology in illustrating, testing, and making vivid the Biblical records. Chief emphasis on the discoveries in Palestine as portraying the life and customs of the people in that land. The inscriptions of Palestine and surrounding countries which have significance for Biblical history are studied in translation.

Open to juniors and seniors who have completed the required work in Biblical History. Three hours. MR. LACHEMAN.

212 (1). RELIGIOUS EDUCATION.

A course meant for those who in their own homes, in Church schools or vacation schools may be responsible for the guidance of children in religious thinking and experience, in development of character and sense of social responsibility. Suitable aims and methods in work with children of different ages, and appropriate use of Biblical and other material. An attempt throughout to relate the specific problems of religious education to the larger problems of the world in which we live.

Open to students who have completed the required work in Biblical History. Three hours. MRS. CURTIS.

213 (2). DEVELOPMENTS IN JUDAISM SINCE 70 A.D. (Not offered in 1944–45.)

The history of Judaism in its relation to the Roman world, Christendom and Islam. The effects of Jewish idealism from within and persecution from without on the formation of present Jewish types. Reading

(in translation) of significant portions of Talmudic, Midrashic, poetic, and speculative literature.

Open to students who have completed the required work in Biblical History. Three hours.

214 (2). STUDIES IN CHRISTIAN BIOGRAPHY.

Studies of certain men and women important in the development of the Christian religion and illustrative of the varieties of Christian experience—such as St. Augustine, St. Francis of Assisi, Luther, Loyola, George Fox, John Wesley, Cardinal Newman, Albert Schweitzer, Kagawa. A brief survey of the main events of church history as background.

Prerequisite, 104. Three hours. MRS. CURTIS.

301. SEMINAR IN HISTORY OF RELIGIONS.

Readings and discussions in the history of religions other than Judaism and Christianity. Each student will be expected to investigate some particular historical problem. In 1944–45, first semester: China and Japan; second semester: India.

Open to seniors by permission. Six hours. MR. LACHEMAN.

302. INTERPRETATIONS OF CHRISTIANITY.

The varying conceptions of the essentials of Christianity as formulated in some of the most important periods of the history of the church; the relation of these conceptions to the religion of the New Testament and to the religious thought of the present day.

Open, by permission, to seniors who have completed 204 or 206. Six hours. MR. LEHMANN.

303. SECOND YEAR HEBREW. (Not offered in 1944–45.)

Open to students who have completed 203. Six hours. MISS SMITH.

305 (2). TRENDS IN CONTEMPORARY CHRISTIANITY.

Studies of contemporary conceptions of the Christian religion, as interpreted in the light of modern life and thought. Liberalism and the New Orthodoxy in Protestantism, the Catholic Movement, Scientific and Classical Humanism, and Social Christianity.

Prerequisite or corequisite, 204 or 206. Three hours. MR. LEHMANN.

306 (2). FURTHER STUDIES IN THE OLD TESTAMENT.

More detailed work on selected portions of the Old Testament. Both content and emphasis (historical, literary, religious) are determined by the interests of the students.

Open to approved juniors and seniors who have taken or are taking a grade II course in the department. Required of those who major in the department. Three hours. MISS GEORGE.

350. RESEARCH OR INDIVIDUAL STUDY.

On consultation with the department, qualified seniors or graduate students may arrange for directed study in advanced Hebrew, Biblical study, or history of Christian thought.

Two to six hours. The amount of work contemplated must be indicated at the time at which electives are due.

DIRECTIONS FOR ELECTION

After finishing the required course a student desiring to major usually continues her work by 204 and 305 in her junior year. In either junior or senior year she may take any other grade II course and 306 which is required for majors; in the senior year 302 or 301. Students who choose 203 as juniors may continue Hebrew in 303 in the senior year. Philosophy 211 may count toward a major in Biblical History. A year of Greek or Hebrew is strongly recommended for students majoring in Biblical History.

The attention of students is called to Sociology 205 as being of practical value to those especially interested in the work of this department.

GENERAL EXAMINATION

Students will be expected to show a knowledge of the Bible as a whole, especially as a record of religious thought and development, and to relate this knowledge to the material of other courses taken.

Such questions of minute detail concerning Biblical history, biography and literature as might be included in term examinations will not appear, but it is to be expected that the student will show as basic to her understanding of religious developments:

1. A broad knowledge of the outlines of the political history involved.
2. A grasp of the principles, procedure and results of historical and literary criticism.
3. Such a knowledge of the content of the Bible as will make it possible for her to illustrate concretely her general statements.

BOTANY

Professor: HOWARD EDWARD PULLING, PH.D. (Chairman)
Associate Professors: HELEN ISABEL DAVIS, B.A.
DIRECTOR OF BOTANIC GARDENS.
GRACE ELIZABETH HOWARD, PH.D.
ASSISTANT CURATOR OF HERBARIUM.
RUTH HUTCHINSON LINDSAY, PH.D.
HARRIET BALDWIN CREIGHTON [W], PH.D.
Assistant Professor: DELAPHINE GRACE ROSA WYCKOFF, PH.D.
Instructor: RHODA GARRISON, M.A.
Assistants: LOLA MUNS WALKER, B.S.
JESSAMINE MOFFAT CHASE.
BEULAH SHEILA KAPLAN, B.A.
FRANÇOISE ALBERTINE KELZ, B.A.
Secretary and Custodian: MARION FRANCES FINLAY, B.A.

Lecturers: HELEN STILLWELL THOMAS, M.A.
ELIZABETH UNGER MCCRACKEN, PH.D.

101. GENERAL BOTANY.

An introduction to plant science designed to present the principles upon which all life depends, to show the importance of plants in our economic and social life, to discuss the origins and characteristics of the great groups of plants, and to afford students the opportunity to learn the principles and the practice of growing plants in the greenhouse and garden. Among the current problems considered are: development and maintenance of soil fertility, plant nutrition and its relation to human nutrition, importance of bacteria and other micro-organisms, improvement of plants through breeding, utilization of plant products in industry, forest and grassland conservation, and prevention of soil erosion.

Open to all undergraduates. Six periods a week, in general two of lecture and discussion and four in laboratory, greenhouse, or field. Six hours.
MISS HOWARD, MISS LINDSAY, MISS THOMAS, MISS MCCRACKEN, MISS GARRISON.

202 (1), (2). PLANT BIOLOGY.

The organization of plants and the effects of this organization on the relations of the individual with its environment. The discussion of these relations is based on the student's intellectual interests and experience, augmented by laboratory and greenhouse experiment, to aid her in learning to correlate knowledge and in securing a broad foundation for further study of biological principles and applications.

Open to students who have completed 101 or its equivalent and to juniors and seniors without prerequisite. Six periods a week, three of lecture and three of laboratory. Three hours. MR. PULLING.

203 (1). FIELD BOTANY.

This course is designed to acquaint the student with the more common

[W] Absent on war service.

wild and cultivated flowers, trees, shrubs, and ferns, and with the societies that they form.

Open to students who have completed 101 or its equivalent and to juniors and seniors without prerequisite. Six periods a week, two of lecture and four in field, laboratory, or greenhouse. Three hours. MISS HOWARD.

204 (1), (2). CULTIVATED PLANTS.

Garden plants—their identification and ornamental value, their culture requirements, methods of propagation, and the means of protecting them against pests and diseases.

Open to students who have completed 101 or its equivalent and to juniors and seniors without prerequisite. Six periods a week, in general two of lecture and four of discussion, laboratory, greenhouse, or field. Three hours. MISS DAVIS.

205 (2). SURVEY OF BACTERIOLOGY.

A brief study of the activities of bacteria, yeasts, and molds, in relation to the physical and economic welfare of man with special emphasis on such current problems as soil fertility, industrial fermentations, food preservation, household and community sanitation, public health, and diseases of plants, animals, and man.

Prerequisite, one year of college science. Five periods a week, three of lecture and two of demonstration laboratory including two field trips. Three hours. MRS. WYCKOFF.

206 (1), (2). THE STRUCTURE OF PLANTS. (Not offered in 1944–45.)

A study of the tissues and cells of root, stem, leaf, and flower: their development under usual environmental conditions.

Open to students who have completed 101 or its equivalent, and to juniors and seniors without prerequisite. Six periods a week, two of lecture and four of laboratory. Three hours.

304 (2). PLANT DISEASES.

The structure, pathological processes, and effects, of representative fungi on economic and ornamental plants. A study of the methods used in cultivating fungi. Modern methods of combating plant diseases.

Open to juniors and seniors who have completed six hours of grade II in Botany. Students who have had 101 or its equivalent may take this course and the prerequisite of grade II at the same time. Six periods a week, two of lecture and four in laboratory, field, or greenhouse. Three hours. MISS HOWARD.

305 (2). PLANT ECOLOGY. (Not offered in 1944–45.)

The relations that plants have with the soil, the climate, and each other, thereby forming plant societies that develop into the climax for the locality; the effects of the disturbances produced by man; and the regeneration of a society when his influence is removed or continued unchanged.

Open to juniors and seniors who have completed a year of grade II in Botany. Six periods a week, two of lecture and four in laboratory, field, or greenhouse. Three hours.

306. PHYSIOLOGY.

Laboratory study of the nature and behavior of living protoplasm, and the fundamental processes that determine the behavior of organisms. Laboratory and greenhouse experiments with many kinds of plants, showing how these principles, which form the foundation of our understanding of growth and development, can be applied in further study and in controlling the behavior of individual plants and groups of plants.

Open to juniors and seniors who have completed six hours of grade II in Botany and who have completed or are taking a year of either Chemistry or Physics. Students who have completed 101 or its equivalent may take this course and the prerequisite of grade II at the same time. Six periods a week, two of lecture and four of discussion and laboratory. Six hours. MR. PULLING.

307. CYTOLOGY AND GENETICS.

A study of the structure and activities of living cells, the phenomena of cell division, the behavior of reproductive cells, especially in relation to heredity. Students gain experience in the techniques of preparing plant material for microscopic study by making some of the slides used in the course. Laboratory and greenhouse work in genetics, including problems of the inheritance of doubleness and other characters in *Petunia*. Discussion of the applications of knowledge of inheritance to the practical problems of plant improvement through breeding and selection.

Open to seniors, and, by permission, to juniors, who have completed six hours of grade II in Botany. Six periods a week, in general two of lecture and discussion and four of laboratory or greenhouse. Six hours. MISS MCCRACKEN.

308. GENERAL BACTERIOLOGY.

A study of the structure and physiological processes of bacteria and other micro-organisms, and their responses to the environment. Consideration of their relations to soil fertility, industrial processes, water and milk supplies, food spoilage and preservation, sewage disposal, disease, immunity, and public health. Practice in laboratory methods to develop techniques that are essential for bacteriological work.

Open to students who have completed one year of Chemistry and either one year of Botany or Zoölogy, or a second year of Chemistry. Six periods a week, in general two of lecture and four of laboratory including three field trips. Six hours. MRS. WYCKOFF, MISS GARRISON.

309 (1). LANDSCAPE GARDENING.

A study of ornamental plants with special emphasis upon their use in landscape gardening. The fundamental principles of design and the historical development of garden design are studied to furnish the back-

ground for an intelligent appreciation of present-day landscape architecture as a fine art. Laboratory practice in developing landscape plans for small estates.

Open to seniors who have completed six hours of grade II in Botany, including 203 or 204. By permission, 204 may be taken in conjunction with 309. Six periods a week, in general two of lecture and four of discussion and practice in drafting-room and field. Three hours. MISS DAVIS.

310 (2). LANDSCAPE DESIGN.

Continuation of the study of the principles of design with landscape materials introduced in 309; a summary of the fundamentals of landscape construction; problems of city planning from the standpoint of æsthetic and recreational requirements. Trips for observation and study.

Prerequisite, 309. Six periods a week, in general two of lecture and four of discussion and laboratory. Three hours. MISS DAVIS.

311 (1). NON-VASCULAR PLANTS.

Algæ, fungi, lichens, liverworts, and mosses: their structure, identification, and relationships. Field trips to seashore, a peat bog, and to near-by ponds, streams, and woodlands. Individual projects for which the student chooses the plant or plants to be used for laboratory and greenhouse experiments in growth and development.

Open to juniors and seniors who have completed 101 or its equivalent. Six periods a week, two of lecture and four in laboratory, greenhouse, or field. Three hours. MISS HOWARD.

312 (1). ADVANCED BACTERIOLOGY.

A systematic study of the more important groups of bacteria. Consideration of the relations of certain bacteria to their biological environments including their relationship to disease and the resistance of the host to bacterial invasion. Discussion of the applications of the knowledge of bacteriological principles to the problems of public health. Laboratory practice in the preparation and sterilization of materials that are used for isolating, cultivating, and identifying bacteria. Practice in the performance of serological techniques that are frequently used for bacterial identification.

Prerequisite, 308 or its equivalent. Six periods a week, in general two of lecture and four of laboratory, including one or two field trips. Three hours. MRS. WYCKOFF.

320. THEORETICAL PHYSIOLOGY.

The content of this course depends upon the needs and interests of the students who elect it. The reading and discussions are concerned with the abstract and logical aspects of the subject; the methods by which research problems should be analyzed, the significance of ex-

plicit and implicit assumptions, the treatment of data, physiology as a field for deductive reasoning, etc.

Open to graduate students only. Six hours. MR. PULLING.

322. BOTANICAL SEMINARS.

The work in the seminars depends on the botanical background of each student and on her plan for further study. A field of botanical science is scrutinized from the standpoints of modern achievement, method of investigation, and the theories and reasoning involved in reaching the present-day conclusions: (*a*) Anatomy; (*b*) Bacteriology; (*c*) Comparative Morphology; (*d*) Cytology; (*e*) Ecology; (*f*) Genetics; (*g*) Geographical Distribution; (*h*) History of Botany; (*i*) Pathology; (*j*) Physiology; (*k*) Plant Materials; (*l*) Taxonomy.

Open to graduate students only. Three to six hours for a semester or six to twelve for a year. THE TEACHING STAFF.

350. RESEARCH OR INDIVIDUAL STUDY.

The study will be under the direction of an instructor in the field chosen. The nature of the work will depend upon whether the student is a senior or a graduate student, and upon the field of interest.

Open to graduate students and, by permission, to seniors. Two to six hours for a year, or three for a semester. The amount of work contemplated must be indicated at the time of handing in electives.

DIRECTIONS FOR ELECTION

The courses in Botany are intended to present to the general student a basis for understanding and interpreting the phenomena of the world of living things and, at the same time, to furnish a foundation for students who plan to follow professionally some phase of biological work.

The major in Botany is based on 101 or on two of the following: 202, 203, 204, 206. The grade III courses, while still emphasizing fundamental biological principles, give more specific training in different phases of botanical science. A variety of sequences of courses is available. Any member of the department will be glad to talk with students concerning the department courses and supplementing courses that will most nearly fill their needs. Those students who are planning to continue their botanical work after graduation along lines of teaching, research, agricultural and experiment station work, in various kinds of technical laboratory work, landscape gardening, horticulture, or museum work, etc., will find it advisable to discuss their plans with the department as early as possible in their course.

For students interested in bacteriology, public health work, or medical laboratory work, 308 and 312 present the basic viewpoints and techniques of bacteriology upon which may be added the more technical training obtainable in graduate or professional schools. Other courses, such as 304, 306, and 307, in this department, as well as courses in Chemistry and Zoölogy, supplement these offerings.

Course 350 is open for independent study or advanced work in any field in which the student has had a grade III course in the department.

Courses 308 and 312 may form a part of a Botany major that includes a year of grade III other than, or in addition to, 309–310 or 350.

The department offerings in Landscape Design, 309–310, may form a part of a Botany major that includes a year of grade III other than, or in addition to, 308 or 312.

Botany majors may, under certain conditions, obtain permission from the Chemistry department to take Chemistry 301 after having had Chemistry 101.

The department will accept a reading knowledge of any of the foreign languages prescribed by the College to fulfill its requirements, but of these it considers French, German, or Latin to be of special value.

General Examination

The general examination aims to test the student's knowledge of the fundamental principles and the basic facts of plant science and to determine her ability to correlate and utilize this information.

A sufficient number of questions will be given to provide a choice for every student, no matter what combination of courses she has elected in her major.

CHEMISTRY

Professors: Helen Somersby French, ph.d.
Mary Amerman Griggs, ph.d.
Ruth Johnstin, ph.d.
Associate Professor: Helen Thayer Jones, ph.d. (Chairman)
Instructors: Margaret Kingman Seikel, ph.d.
Dwight Baker McNair Scott, ph.d.
Margaret Zerelda Magee, m.a.
Margaret Weaver Holt, ph.d.
Assistants: Mary Patricia Edmonds, b.a.
Marcia Elizabeth Christy, b.a.
Eleanor Adele Grunwald, b.a.
Margaret Lynn Powe, b.a.
Secretary and Custodian: Emily May Hopkins, m.a.

Lecturer: Miles Standish Sherrill, ph.d.

101. Elementary Chemistry.

The fundamental laws and theories of chemistry, in connection with the study of the non-metals and a brief survey of the metals.

Open to students who do not present Chemistry for admission. Three periods of lecture and discussion and one three-period laboratory appointment a week. Six hours. Miss Johnstin, Miss Jones, Miss Edmonds, Miss Grunwald, Miss Powe.

103. General Chemistry and Qualitative Analysis.

In the first semester the preparatory work in chemistry is used as a basis for acquiring a wider knowledge of general chemistry and for the

study of chemical theories. In the second semester a study is made of the principles which govern the reactions of electrolytes in solution, as illustrated by the chemistry of inorganic semimicro qualitative analysis.

Prerequisite, the admission requirement or its equivalent. Three periods of lecture and discussion with one three-period laboratory appointment a week for the first semester, and two periods of lecture with six periods of laboratory for the second semester. Six hours. The second semester may be taken separately by those who have completed 101. MISS GRIGGS, MISS JONES, MRS. SCOTT, MISS MAGEE, MRS. HOLT, AND ASSISTANTS.

201 (1). QUALITATIVE ANALYSIS.

A study of the principles which govern the reactions of electrolytes in solution, as illustrated by the chemistry of inorganic semimicro qualitative analysis.

Prerequisite, 101. Two periods of lecture and six periods of laboratory a week. Three hours. MISS GRIGGS, MISS EDMONDS, MISS CHRISTY.

202 (1), (2). QUANTITATIVE ANALYSIS. First course.

A study of the fundamental methods of gravimetric and volumetric analysis with emphasis on the theory, laboratory technique and calculations of each method.

Prerequisite, 103 or 201. One period of lecture, one period of discussion, and six periods of laboratory a week. Three hours.

MISS GRIGGS, MISS MAGEE, MRS. HOLT.

207 (2). QUANTITATIVE ANALYSIS. Second course.

A continuation of 202 with emphasis on some of the newer methods of quantitative analysis and the use of special instruments.

Prerequisite, 202. One period of lecture and six periods of laboratory a week. Three hours. MISS GRIGGS.

301. ORGANIC CHEMISTRY.

A systematic study of both the aliphatic and aromatic series. The laboratory work introduces the student to the fundamental methods of preparation and purification of typical organic compounds.

Prerequisite, 103 or 201 or, by permission, 101. Three periods of lecture and discussion and one three-period laboratory appointment a week. Six hours. MISS FRENCH, MISS SEIKEL, MISS MAGEE, MISS CHRISTY.

302 (2). IDENTIFICATION OF ORGANIC COMPOUNDS.

A study of the systematic qualitative analysis of organic substances. Since each student identifies individual compounds and mixtures, independent work is encouraged. The course offers a good introduction to research methods and attitudes.

Open to juniors and seniors who have completed 202 and 301. Two periods of lecture and discussion, six to seven periods of laboratory a week. Three hours.

MISS SEIKEL.

303 (1). ADVANCED QUANTITATIVE ANALYSIS.

A study of some of the more advanced and newer methods of quantitative analysis. In the laboratory the student is introduced to special apparatus and equipment. Although many of the specific analyses may vary from year to year, electrometric titrations are usually included as well as special problems.

Open to juniors and seniors who have completed 202 and 301. One period of lecture and discussion and six periods of laboratory a week. Three hours.

MISS SEIKEL.

304 (1). CHEMISTRY OF FOOD AND NUTRITION.

The composition of common food materials and their function in nutrition. Laboratory practice in standard methods of analysis of foods including grain products, carbohydrates, fats and oils, milk and milk products.

Open to juniors and seniors who have completed 202 and who have completed or are taking 301. Two periods of lecture and discussion and five periods of laboratory a week. Three hours. MISS JOHNSTIN, MRS. SCOTT, MRS. HOLT.

305 (1). PHYSICAL CHEMISTRY.

This course traces historically, summarizes, and applies to practical problems, the laws of matter in its various states of aggregation (including colloidal), and also the laws governing solutions, chemical equilibrium, and reaction velocity.

Open to juniors and seniors who have completed 202 and have completed or are taking 301, a year of college Physics, and Mathematics 106 or 107. Three periods of lecture and discussion and one three-period laboratory appointment a week. Three hours. MISS FRENCH, MR. SHERRILL, MISS MAGEE.

306 (2). THEORETICAL CHEMISTRY.

A continuation of 305, including especially electrochemistry, thermochemistry, photochemistry, and theories of atomic and molecular structure.

Open to juniors and seniors who have completed 305. Three periods of lecture and discussion and one three-period laboratory appointment a week. Three hours.

MISS FRENCH, MR. SHERRILL.

307 (2). ADVANCED INORGANIC CHEMISTRY.

A comprehensive survey of the different classes of inorganic substances and the modern theoretical interpretation of their interactions.

Open to juniors and seniors who have completed 202 and who have completed or are taking 301. Three periods of lecture and discussion a week. Three hours.

MISS JONES.

309 (2). BIOCHEMISTRY.

The chemistry of the more important organs and tissues of the body and the chemical changes involved in the digestion, assimilation and

elimination of food constituents. The laboratory work includes a study of the methods of analysis generally employed in hospital practice.

Open to juniors and seniors who have completed 202 and 301 and who have completed or are taking Zoölogy 101 or 308. Two periods of lecture and discussion and five periods of laboratory a week. Three hours.

MISS JOHNSTIN, MRS. SCOTT.

310 (1). QUANTITATIVE ORGANIC MICROANALYSIS.

Methods of elementary microcombustions, as well as micromethods for the quantitative determination of certain groups in organic molecules.

Open, by permission, to a limited number of seniors who have completed 202 and 301. One period of lecture and discussion, six to seven periods of laboratory a week. Three hours. MISS FRENCH.

312 (1). USE OF THE LITERATURE OF CHEMISTRY.

An introduction to the literature of chemistry, both the primary sources (journals) and the secondary sources (abstracts, compendia and indices). The technique of searching this literature for isolated facts and methods, or for complete surveys of limited or extensive subjects.

Open to majors who have completed or are taking 202 and 301, and to graduate students. One period of lecture and discussion a week. One hour. MISS SEIKEL.

320. SEMINAR.

Reports on recent developments in chemistry.

Open to graduate students. This course usually meets every other week for two hours in the evening. Two hours. THE TEACHING STAFF.

350. RESEARCH OR INDIVIDUAL STUDY.

An individual problem under the direction of the instructor in the field chosen. Laboratory work and reading.

Open to graduate students and, by permission, to undergraduates who have completed at least nine hours in the department. Three hours for a semester or six hours for a year.

DIRECTIONS FOR ELECTION

Members of the department will be glad to advise students concerning courses which would best prepare for graduate study, for teaching, for work in industrial or hospital laboratories, for nursing, or for public health work.

Premedical students are referred to the requirements for pre-professional training as given on page 36.

The American Chemical Society has established a set of requirements which it considers essential for the training of chemists, especially for industrial work. Students wishing to meet the standard of an accredited chemist as defined by this Society should consult the chemistry department.

For any major in chemistry one of the following sequences of courses is essential: 101, 201, 202, and 301; or 103, 202, and 301. Any other

courses in the department may be added to these to complete the twenty-four-hour major. Such a major with the related work in the field of concentration will give an adequate background for admission to graduate school and to medical schools of grade A.

It is advisable that all students majoring in chemistry should complete at least one year of college physics and one year of college mathematics, and acquire a reading knowledge of French and German before the senior year. They will be required to pass a reading knowledge examination in German, or French.

Students not majoring in chemistry who intend to use their chemistry after graduation will be recommended by the department only if they have completed at least eighteen hours of chemistry.

General Examination

The aim of the general examination in chemistry will be to test the student's knowledge of the fundamental principles and important facts of chemistry, and her ability to correlate and apply this material.

CLASSICAL ARCHÆOLOGY

The departments of Art, Greek, and Latin offer a program of study constituting a major in Archæology. The purpose of this major is to correlate the courses in ancient art with those in Greek and Latin language and literature, in order to provide opportunity for a more comprehensive study and understanding of ancient civilization than is available within any one of the separate departments. This major will also serve as a basic preparation for those students contemplating graduate and field work in archæology.

The work for concentration should normally include forty-eight hours divided as follows: eighteen hours in Art; either eighteen hours in Greek and six hours in Latin or eighteen hours in Latin and six in Greek; six hours in Ancient History (203 or 204). From the courses elected in Art, Greek, and Latin, thirty hours will be chosen to form the major. The choice will be made by the student in consultation with the chairman in charge of the work in archæology.

All courses in the Greek and Latin departments may be counted in the field for concentration, except Greek 203, 204, 207, and Latin 104, 105. In the Art department the following courses may be counted: 101, 209, 314, 318, 320. In addition to these, 350 work may be taken in any one of the three departments concerned. The complete program should include six hours of grade III work in Art and six hours of grade III work in either Greek or Latin.

Some knowledge of geology is useful for field archæology; chemistry is valuable both for field and museum work.

A reading knowledge of French, German, or Italian is required for this major.

The work of the Archæology major will be supervised by a joint

committee composed of representatives from the three departments concerned. Students should have their program approved by the chairman of this committee who will be Associate Professor Dorothy M. Robathan for the year 1944–45.

The general examination will cover the thirty hours of work included in the major. It will be given in two parts, one on art, the other on language and literature.

ECONOMICS

Professor: ELIZABETH DONNAN, B.A.
Associate Professors: LAWRENCE SMITH, M.A. (Chairman)
LUCY WINSOR KILLOUGH,[w] PH.D.
Assistant Professor: VICTOR EARLE SMITH, PH.D.
Instructors: GERTRUD BERTA GREIG, M.A.
ALICE JOHN VANDERMEULEN, B.A.
ELIZABETH RINGO BRAIDER, B.A.

101. ECONOMIC PRINCIPLES AND PROBLEMS.

A course which contributes to the understanding of contemporary life through a study of the economic order on which our present social and political system is built. The growth of machine technique, corporate organization, and mass production, with the mechanism of money, banking, and international trade. Analysis of the working of the existing price system. The causes and results of present inequalities in the distribution of income; scales of living; trade unions, unemployment, social legislation, government regulation of business, taxation.

Open to all undergraduates. Sections for freshmen will be arranged. Six hours. MISS DONNAN, MR. L. SMITH, MR. V. SMITH, MISS GREIG, MRS. VANDERMEULEN, MRS. BRAIDER.

204 (2). ECONOMIC HISTORY OF THE UNITED STATES.

Our national development in its economic and social aspects, with special emphasis upon the struggle between agrarian and business interests, the growth of business combinations, and the development of government control of business.

Open to sophomores, juniors, and seniors who have completed or are taking 101. Three hours. MISS DONNAN.

209 (1). ECONOMIC HISTORY OF ENGLAND.

A comparison of economic and social life in England before and after the Industrial Revolution. Such topics as capitalism in the seventeenth and early eighteenth centuries; the struggle between landed interests and rising manufacturers over factory acts and corn laws, the vicissitudes of poor law legislation, and the increase in the concern of

[w] Absent on war service.

the government for the welfare of the individual, from the end of the eighteenth century through the nineteenth.

Open to sophomores, juniors, and seniors who have completed or are taking 101. Three hours. MISS DONNAN.

210. FINANCIAL ORGANIZATION OF SOCIETY.

Money, credit, general price levels, and business cycles. Emphasis on monetary systems and current monetary problems. The work of commercial banks and the functioning of the Federal Reserve system. Business cycles are dealt with historically and theoretically, and methods of stabilization are analyzed.

Prerequisite, 101. Six hours. MR. L. SMITH.

211 (1). INTRODUCTION TO SOCIAL AND ECONOMIC STATISTICS.

Statistical methods as used in the social sciences. Detailed examination of the technique of a statistical investigation, with emphasis on methods of classification and presentation. Frequency distributions and simple correlation.

Open to students who have completed 101 and, by permission, to juniors and seniors who are taking 101. Credit for this course will not be given to a student receiving credit for Mathematics 205. Three periods of lecture and recitation and two hours of laboratory a week. Three hours. MRS. VANDERMEULEN.

301 (2). THEORIES OF SOCIAL RECONSTRUCTION.

Outstanding economic problems facing contemporary industrial society, especially as seen in the United States; the solutions proposed by socialism, communism, fascism, and controlled democratic capitalism; the relation of these theories to existing social policies.

Open to seniors, and by permission to juniors, who have completed 101 and one of the following: 305, 308, 315, Sociology 316, Political Science 318. Three hours. MISS GREIG.

304 (2). STANDARDS OF LIVING AND THEIR MAINTENANCE. (Not offered in 1944–45.)

Standards of living and their maintenance by governmental and nongovernmental action, through such devices as social insurance and social services, minimum wage, public works, and public relief.

Open to juniors and seniors who have completed Economics 101 and have completed or are taking any course of grade II in the departments of Economics or Sociology. Three hours. MISS GREIG.

305 (2). PUBLIC REGULATION OF BUSINESS.

State and federal regulation of industrial accidents, child labor, hours of work for men and women, and minimum wages, as illustrating the interrelatedness of different kinds of control. The history of regulation of transportation, and public utilities; the changing attitude toward monopoly and competition. Problems of economic planning.

Open to juniors and seniors who have completed 101 and have completed or are taking one of the following: 204, 209, 210, Political Science 201, 304. Three hours. MR. V. SMITH.

306 (1). CORPORATIONS AND COMBINATIONS.

Corporate structure and operation. The market for corporate securities, including investment banking, other investment institutions, the stock exchange, government regulation of security issues and exchanges. Problems arising from the development of great corporations, through both concentration and combinations.

Open to students who have completed 101 and have completed or are taking one of the following: 204, 210, Political Science 201, 304. Three hours.

MR. L. SMITH.

308 (1). MODERN LABOR RELATIONS.

The past and present relations of workers to employers in the United States. The history and legal status of trade unionism and other working-class movements in America.

Open to seniors, and by permission to juniors, who have completed 101 and have completed or are taking one of the following: 204, 209, 210, Sociology 203, 205, 206, Political Science 201, 304. Three hours. MISS GREIG.

310 (2). PUBLIC FINANCE.

The principles and the practical problems of government expenditures and revenues. The growth and social justification of public expenditures. The theory and incidence of taxation and the chief taxes levied by the cities, states, and federal government. Public debts and public fiscal administration.

Open to juniors and seniors who have completed 101 and have completed or are taking one of the following: 204, 209, 210, Sociology 201, 203, Political Science 201, 304. Three hours. MRS. VANDERMEULEN.

312 (2). ECONOMIC STATISTICS.

Economic statistics, with emphasis on the analysis of time series. Probability theory and multiple and partial correlation. Consideration of the place of the quantitative method in economics.

Open to juniors and seniors who have completed 211, or by permission to students who have completed Mathematics 205, and have completed or are taking any other course of grade II in the department. Three periods of lecture and recitation and two hours of laboratory a week. Three hours.

MRS. VANDERMEULEN.

313 (2). SEMINAR. SELECTED TOPICS IN ECONOMIC MOVEMENTS AND THEORIES.

Each year a different field of research is selected.

Open to seniors and graduate students, approved by the chairman of the department, who have taken eighteen hours in Economics. Three hours.

MISS DONNAN AND OTHER MEMBERS OF THE TEACHING STAFF.

314 (2). INTERNATIONAL ECONOMIC RELATIONS.

The economic position of the United States in relation to other countries. Theories of international trade and capital movements; national resources and trade; government control over commerce, especially tariffs and raw material control. Various aspects of economic nationalism.

Prerequisite, 210. Three hours. MR. L. SMITH.

315 (1). PRICES.

The development of economic thought concerning prices from the "just price" of mediæval writers to the current explanations of the pricing process; the place of prices in a competitive economy; and the practical problems of price regulation.

Open to seniors, and by permission to juniors, who have completed 101 and six additional hours in the department. Three hours. MR. V. SMITH.

318 (2). MODERN ECONOMIC THOUGHT. (Not offered in 1944–45.)

A study of recent economic doctrine with special emphasis on those aspects which diverge from nineteenth-century theory, and some attention to the relation of economic science to other social sciences.

Open to seniors who have completed 101 and six additional hours in the department. Three hours. MISS DONNAN.

320 (1). POPULATION PROBLEMS. (Not offered in 1944–45.)

For description and prerequisites, see Sociology 320.

321 (1). THE ECONOMICS OF CONSUMPTION.

A survey of the economic problems confronting individuals as consumers, with special emphasis on the problems of consumer-buyers. Sources of information about patterns of consumption, and some of the influences, social and economic, affecting consumer choices. Methods and costs of distribution as they affect consumers, and types of government regulation which are desirable in their interest.

Open to juniors and seniors who have taken 101 and have completed or are taking one of the following: 204, 209, 210, or any grade II course in Sociology. Three hours. MISS DONNAN.

350. RESEARCH OR INDIVIDUAL STUDY.

To a limited number of advanced students wishing to do individual work outside of regular courses the department is prepared to offer a course of directed reading, to be tested by examination or final paper.

Students desiring to register for such a course must secure the approval of the chairman of the department in advance of the time at which electives are due. Three hours for a semester or six hours for a year.

DIRECTIONS FOR ELECTION

Students majoring in this department are requested to take their language examination in French, German, or Spanish. Exceptions require the consent of the department.

The attention of students who are interested in the teaching of Economics is called to Education 308, The Teaching of Social Studies in the Secondary School.

GENERAL EXAMINATION

The aim of the general examination set by the Department of Economics will be to present for analysis new problems, calling for an application of the principles and the body of factual material acquired by the student in those courses which have constituted her major in the department. In the same way that the examination at the end of each course attempts to test the student's power to reorganize and to correlate the material of the course and to bring it to bear upon a new situation, so the general examination will attempt to test that power with the larger body of material at the student's command as a result of all her work in the department.

EDUCATION

Professor: MARY LOWELL COOLIDGE, PH.D.
PROFESSOR OF PHILOSOPHY

Associate Professors: JOHN PILLEY, M.A. OXON. (Chairman)
DOROTHY WARNER DENNIS, B.A., DIPL.E.U.
ASSOCIATE PROFESSOR OF FRENCH

Assistant Professor: ISABELLA MCLAUGHLIN STEPHENS, M.A.

Executive Secretary: ALICE BURT NICHOLS, B.A., ED.M.

Instructor: CHRISTINE MADELEINE GIBSON,[5] M.A.

Lecturer: RUTH WENDELL WASHBURN, PH.D.
CONSULTANT AT THE ANNE L. PAGE MEMORIAL SCHOOL

The Department of Education offers both undergraduate and graduate courses. Eighteen hours of work may be counted toward the B.A. degree. A more detailed statement of the requirements for the degree of Master of Arts in Education may be found in the *Graduate Circular*.

200. PRINCIPLES OF EDUCATION.

A study of the educative process. Human development as contrasted with organic growth. What it means to be educated. Education as training and as purposive activity. The teacher's work. The school and society. Visits to neighboring schools.

Open to juniors and seniors, and to sophomores who have had or are taking a course in Psychology. Six hours. MR. PILLEY, MRS. STEPHENS.

[5] Appointed for the second semester only.

206 (1). SECONDARY EDUCATION.

The rôle of secondary schools of various kinds within the educational system. Their aims, government, and organization in relation to their social, political, and economic backgrounds. The course is intended to prepare students for the method courses offered in the second semester.

Prerequisite, 200. Three hours. MRS. STEPHENS.

207 (2). EDUCATION FOR CHILD CARE SERVICE.

The course is designed to provide the theoretical part of the preparation of students who wish to qualify as assistants in the care of children whose mothers are engaging in industry and other war work. The course will consist of lectures by specialists, and reading, having to do with the sociological, psychological, physiological, and educational aspects of the task. It will include visits to institutions concerned with the care of young children. This course, together with the practice work, will qualify students for certification for work with children in emergency centres.

Prerequisite: practice work in the summer vacation. Open, by permission of the department and the Class Dean, to sophomores, juniors, and seniors. Not open to students who are taking or have taken 305. Three hours.

MR. PILLEY, MRS. STEPHENS, MISS WASHBURN AND VISITING LECTURERS.

212 (1). RELIGIOUS EDUCATION.

For description and prerequisites, see Biblical History 212.

303 (2). THE TEACHING OF FRENCH IN THE SECONDARY SCHOOL.

The principles underlying the teaching of French, with special reference to the learning capacities of secondary school pupils. The integration of modern foreign languages with other studies in the curriculum. The equipment of the teacher and her department. The organization of courses in French, including the choice and use of texts and other materials. Observation of French classes in neighboring schools.

Open to seniors who have taken Education 200 and 206 and who are taking French 301, 302, 305, 306, or 307; or by permission. This course may be counted toward a major in French. Three hours. MISS DENNIS.

304 (1). HISTORY OF EDUCATIONAL IDEAS AND INSTITUTIONS: WESTERN EUROPE. (Not given in 1944-45.)

A study of the outstanding contributions to educational theory of writers from Plato's time to the beginning of the nineteenth century, and of the political, economic, and social conditions that influenced the development of educational institutions during that period.

Open to juniors and seniors who have had a course in Education and, by permission, to others who have had a grade II course in a department of group II. Three hours. MISS COOLIDGE.

305. THE EDUCATION OF THE YOUNG CHILD.

The study of the young child at successive stages of growth: physical, social, and mental. A survey of fundamental theories and of actual procedures in the education of children at the nursery school, kindergarten, and primary school levels. Critical examination of techniques of child study, and their interpretation. Emphasis on recent findings and current problems. Opportunities for observation and special study at the Page Memorial School.

Open to seniors who have taken Education 200 and to graduates. Six hours.

MISS WASHBURN.

306 (2). HISTORY OF EDUCATIONAL IDEAS AND INSTITUTIONS: THE UNITED STATES. (Not offered in 1944–45.)

The development of educational ideas and institutions in America from the colonial period to the present day, comparing this with simultaneous developments in Europe. The contributions made to educational thought, and to changes in schools by outstanding men and women of the post-revolutionary period. The development of educational ideas and institutions accompanying rapid industrial development. The divergencies in educational ideals and policies of today. This course may be elected as a continuation of course 304 or separately.

Open to juniors and seniors who have had a course in Education and, by permission, to others who have had a grade II course in a department in group II. Three hours.

MISS COOLIDGE.

307 (2). THE TEACHING OF ENGLISH IN THE SECONDARY SCHOOL.

A study of the rôle of language in thought and communication. Recent trends in English teaching and modern methods of encouraging secondary school pupils in the arts of reading and writing. A study of the contribution that literature can make to the personal development of young people. Visits to schools, libraries, etc.

Open to seniors whose college course includes at least eighteen hours in the departments of English Composition and/or English Literature, and who have taken Education 200 and 206. Three hours.

MISS GIBSON.

308 (2). THE TEACHING OF SOCIAL STUDIES IN THE SECONDARY SCHOOL.

Methods of encouraging high school students in an understanding of the society in which they are living and of its historical development. The relations between the kinds of knowledge developed in the separate social studies and the methods whereby a preliminary understanding of these relations may be encouraged in high school students. The particular problems that arise in teaching the social study in which students have specialized. Visits to neighboring schools.

Open to seniors majoring in History, Economics, Political Science, Sociology, or Geography, who have taken Education 200 and 206. Three hours.

MRS. STEPHENS.

310. SEMINAR.

Subject determined by the preparation and interests of the individual student.

Open to graduates and seniors approved by the department. Six hours.

MR. PILLEY.

350. RESEARCH OR INDIVIDUAL STUDY.

Subject determined by the preparation and interests of the individual student. The work will be under direction of one or more members of the department.

Students wishing to study methods of teaching special subjects in which the department does not offer courses are advised to consult the chairman of the department as to possibilities of their making such study under this heading.

Open, by permission, to graduates and seniors. Two to six hours.

DIRECTIONS FOR ELECTION

Students who intend to teach should (in their sophomore year if possible) consult a member of the department concerning city and state requirements for the certificate to teach. In a majority of states these requirements include from fifteen to eighteen hours in Education; a few states require twenty-four hours. Plans should be made in the sophomore year for completion of the necessary courses in Education in the junior and senior years.

A student wishing special preparation for teaching may plan a five-year integrated course leading to a Bachelor of Arts degree at the end of the fourth year and a Master of Arts in Education at the end of the fifth.

Such programs as those indicated below may be arranged for the fifth year:

I. Primarily for secondary school teachers.
   12 hours in any of the following: 206, 303, 304, 306, 307, 308, 310, a course in Psychology chosen in consultation with the department;
   12 hours in one department other than Education.

II. Primarily for teachers of young children.
   305, 310, and 12 hours in one or more departments other than Education, to be arranged in conference with the department.

ANNE L. PAGE MEMORIAL SCHOOL

Director: MARY COOPER WALTON, B.S.

The Anne L. Page Memorial School is an integral part of the Wellesley College educational program. It is a centre for child study, observation, and practice teaching for students from all departments of the College.

The school is for children from two to eight years of age. The program is one which recognizes the early years as of vital importance in

the education of the child. It is based on the belief that in these years the child makes progress in discovering his own powers in relation to people and things, and may be helped to gain a constructive attitude toward developing and controlling them. Members of the college faculty serve in the capacity of consultants to the Director and staff of the School.

ENGLISH

Professors: ELIZABETH WHEELER MANWARING, PH.D. (Chairman of English Composition)
HELEN SARD HUGHES, PH.D.
EDITH CHRISTINA JOHNSON, PH.D.
KATHARINE CANBY BALDERSTON,[1] PH.D.
ELLA KEATS WHITING, PH.D.
Visiting Professor: OLA ELIZABETH WINSLOW, PH.D.
Associate Professors: GRACE ETHEL HAWK, B.LITT.OXON. (Chairman of English Literature)
EMMA MARSHALL DENKINGER, PH.D.
WALTER EDWARDS HOUGHTON, PH.D.
Assistant Professors: CHARLES WILLIAM KERBY-MILLER, PH.D.
M. ELEANOR PRENTISS, M.A.
RUTH CARPENTER CHILD, PH.D.
MARIE LOUISE EDEL, PH.D.
MARY RUTH MICHAEL, PH.D.
EVELYN KENDRICK WELLS, M.A.
Instructors: RALPH MEHLIN WILLIAMS, PH.D.
KATHERINE LEVER, PH.D.
LUCILE BURDETTE TUTTLE, M.A.
FRANCES ELEANOR BROOKS, M.A.
SYLVIA LEAH BERKMAN, PH.D.
ROBERTA MARGARET GRAHAME, PH.D.
INGEBORG GREEFF, M.A.
LOUISE BARR MACKENZIE, M.A.

For purposes of election, English Literature and English Composition are regarded as two departments. A choice of three majors is offered to students interested in working in the field of English.

I. A major in English Language and Literature.
II. A major in English Composition.
III. A joint major in Literature and Composition.

I. ENGLISH LANGUAGE AND LITERATURE

101. ENGLISH LITERATURE OF THE RENAISSANCE—AN INTRODUCTION.

A study of Elizabethan literature with emphasis on Sidney, Spenser, and Shakespeare. Designed to illustrate the spirit of the age and its literary achievement, and to develop a critical understanding of important continuing types of literature.

Open to freshmen, sophomores, and juniors. Six hours.

MR. HOUGHTON, MISS EDEL, MISS WELLS, MRS. MACKENZIE.

[1] Absent on leave.

103. THE BALLAD.

The traditional ballad as sung in Britain and America today. The social conditions preserving it; its folk-lore and legend; the collections of Percy, Scott, and Child as inspiration for modern poets.

No prerequisite. Two hours. MISS WELLS.

104. SURVEY OF ENGLISH LITERATURE.

The analysis, through lectures, reading, and discussion, of representative English authors and works, chosen primarily to illustrate: the permanent spirit and developing characteristics of a people; the moods of successive periods; shifts and varied emphases in taste and ideas. An attempt is made to avoid selections widely read in preparatory schools. (Primarily for non-majors.)

Open to sophomores, juniors, and seniors. Six hours.

MISS HAWK, MISS EDEL, MISS WELLS, MRS. MACKENZIE.

209. VERSIFICATION.

Such study of the principles of English versification as may give to the student of literature a keener appreciation of poetic expression; for those interested in writing verse, opportunity for experiment and criticism.

Open to students, except freshmen, who have completed or are taking one full course in English Literature, and to those majoring in English Composition. Two hours. MISS MANWARING.

210. MODERN POETRY.

Certain of the chief English poets and the most striking developments in English poetry since 1900. The course may not count toward a major in English Literature.

Open to juniors and seniors without prerequisite. Two hours.

MISS MANWARING.

212. MODERN ENGLISH DRAMA.

First semester: the history of the drama from 1860 to 1914, with study of the influence of Ibsen and other continental dramatists. Second semester: the post-war contemporary theatre, with study of its relationship to the Elizabethan and Restoration drama, as well as to the contemporary continental drama. This course may not count toward a major in English Literature.

Open to juniors and seniors without prerequisite. Four hours.

MISS DENKINGER.

213 (1). THE EPIC AS A CONTINUING TYPE IN GREEK, LATIN, AND ENGLISH LITERATURE.

A study of the epic type as represented by Homer's *Iliad* and *Odyssey*, Vergil's *Æneid*, and Milton's *Paradise Lost*. The Greek and Latin epics will be read in English translation.

Open to students who have completed a grade I course in any literature, or to juniors and seniors without prerequisite except students who have taken or are

taking Greek 203, Latin 105, or English Literature 217. (A beginning course in a foreign language will not serve as a prerequisite.) Three hours.

MISS HAWK, MISS MCCARTHY, MISS TAYLOR.

214 (1). ARTHURIAN ROMANCE. (Not given in 1944–45.)

Malory's *Morte d'Arthur* as a masterpiece of mediæval prose fiction. The genesis of the Arthurian tradition, and its literary development before Malory. As time permits, modern Arthurian poems.

Open to sophomores who have taken 101 and to juniors and seniors without prerequisite. Three hours.

216 (1). SEVENTEENTH CENTURY POETRY AND PROSE EXCLUSIVE OF MILTON. (Not offered in 1944–45.)

The stress and conflict of an age of transition, presented through the innovations of Donne and Jonson in poetry, and of Bacon, Browne, Burton, Walton, and Hobbes in prose. Briefer study of the Cavalier and religious poets.

Open to sophomores who have taken 101 and to juniors and seniors without prerequisite. Three hours. MISS HAWK.

217 (2). MILTON.

A critical study of Milton as a master of lyric, epic, and dramatic poetry, and as a writer of notable prose. The character and genius of the poet, as influenced by the political and religious conflict of the time.

Open to sophomores who have taken 101 and to juniors and seniors without prerequisite. Three hours. MISS HAWK.

218 (1). THE ENGLISH NOVEL: THE RISE OF THE TYPE.

The growth of the English novel from the Elizabethans to Scott with emphasis on the eighteenth century. Consideration of the thought and technique of the greater novelists: Defoe, Richardson, Fielding, Smollett, and Sterne; and of certain minor writers who express the rising romanticism of the period and the doctrines of the French Revolution.

Open to sophomores who have taken 101 and to juniors and seniors without prerequisite. Three hours. MISS HUGHES.

219 (2). THE ENGLISH NOVEL IN THE NINETEENTH CENTURY.

A study of the major novelists: Scott and Jane Austen, Dickens and Thackeray, Hardy and Meredith; and of the representative works of lesser writers who exemplify the development of realism and romanticism in the fiction of the century, and the shifting currents of intellectual inquiry and social reform.

Open to sophomores who have completed 101, and to juniors and seniors without prerequisite. Three hours. MISS HUGHES.

220 (1), (2). CHAUCER.

A study of Chaucer's poetry, tracing the development of his art and showing the relation of his work to the social and literary background of his time.

Open to sophomores who have taken 101 and to juniors and seniors without prerequisite. Three hours. MISS WHITING, MISS EDEL.

221 (1). HISTORY OF ENGLISH DRAMA TO 1610.

A study of the growth of English drama from its beginnings in the mediæval church to its culmination in the work of Shakespeare and his contemporaries.

Open to sophomores who have taken 101, and to juniors and seniors without prerequisite. Three hours. MISS EDEL.

222 (2). HISTORY OF ENGLISH DRAMA, 1610–1800.

A study of Jacobean, Restoration, and eighteenth-century drama, with special emphasis upon the intellectual and social forces that shaped it.

Open to students who have taken 221, and to others by permission of the instructor. Three hours. MISS EDEL.

223 (1). AMERICAN LITERATURE, 1620–1820.

A study of the beginnings of American literature and the social conditions out of which it grew, followed by a consideration of early American biography, drama, and novel. Attention will be given to some later American writing based on events occurring in this period.

Open to sophomores who have taken 101 and to juniors and seniors without prerequisite. Three hours. MISS WINSLOW.

224 (2). AMERICAN LITERATURE, 1820–1900.

Leading nineteenth-century American writers from Poe to Mark Twain, considered in relation to contemporary English and American life and thought. Special emphasis upon the works of Poe, Hawthorne, Thoreau, Emerson, and Whitman.

Open to sophomores who have taken 101 and to juniors and seniors without prerequisite. Three hours. MISS WINSLOW.

309. SHAKESPEARE.

Shakespeare's development as dramatist and poet, studied through twenty plays. Some consideration of his debt to his contemporaries, his use of stage conventions, his theatre, representative source studies, Shakespearian criticism, theories of tragedy.

Open to juniors and seniors who have either (1) completed a course of grade I, and have completed or are taking six hours of work of grade II in the department, or (2) completed six hours of grade II in the department.* Six hours.* MISS WINSLOW.

310. EIGHTEENTH CENTURY LITERATURE (EXCLUSIVE OF THE NOVEL AND THE DRAMA). (Not offered in 1944–45.)

Neo-classicism, rationalism and sentimentalism, studied in the work of Addison, Steele, Pope, Swift, Shaftesbury, Mandeville, Dr. Johnson

* Courses 210, 212, 213, not in the English Literature major, do not serve as prerequisites for grade III.

and his circle. The romantic beginnings in Thomson, the Wartons, Collins, Gray, through Blake and Burns.

Open to juniors and seniors who have either (1) completed a course of grade I, and have completed or are taking six hours of work of grade II in the department, or (2) completed six hours of grade II in the department.* Six hours.*

MISS BALDERSTON.

312. HISTORY OF THE ENGLISH LANGUAGE.

A study of the history of the English language from its beginning to the present day, with emphasis upon growth and structure and upon the relation of the language to the history and the literary expression of English speaking people.

Open to juniors and seniors who have completed or are taking six hours of grade II either in English Composition or in English Literature; and, in addition, to students who are concentrating in foreign languages. Six hours.

MR. WILLIAMS.

313. THE ROMANTIC PERIOD, 1789–1830.

Major emphasis upon the poetry and criticism of Wordsworth, Coleridge, Byron, Shelley, and Keats. Briefer study of the prose of Lamb and Hazlitt.

Open to juniors and seniors who have either (1) completed a course of grade I and have completed or are taking six hours of work of grade II in the department, or (2) completed six hours of grade II in the department.* Six hours.*

MR. HOUGHTON.

314. THE VICTORIAN AGE.

The prose of such representative figures as Macaulay, Huxley, Carlyle, Newman, and Arnold. The poetry of Tennyson, Browning, and the Pre-Raphaelites. The emphasis will be placed on Victorian conceptions of politics, science, religion, education, and æsthetics.

Open to juniors and seniors who have either (1) completed a course of grade I and have completed or are taking six hours of work of grade II in the department, or (2) completed six hours of grade II in the department.* Six hours.*

MR. HOUGHTON.

320. SEMINAR. STUDIES IN EIGHTEENTH CENTURY LITERATURE. (Not offered in 1944–45.)

Social reform and literary criticism. Contrasting ideas of neoclassicists and early romanticists studied in certain works of Fielding, Pope, Dr. Johnson, the Wartons, in the paintings of Hogarth, the letters of Horace Walpole, and the novels of William Godwin and Mrs. Inchbald.

Open to seniors who have completed twenty-four hours of work in the department, and to graduate students. Six hours. MISS HUGHES.

* Courses 210, 212, 213, not in the English Literature major, do not serve as prerequisites for grade III.

321. SEMINAR. STUDIES IN NINETEENTH CENTURY LITERATURE. (Not offered in 1944–45.)

Open to seniors who have completed twenty-four hours of work in the department, and to graduate students. Six hours.

324. STUDIES IN AMERICAN LITERATURE. (Not offered in 1944–45.)

Representative American writers, with detailed study of their social background and literary achievement.

Open to seniors who have completed twenty-four hours of work in the department, and to graduate students. Six hours.

326. SEMINAR. ENGLISH MEDIÆVAL LITERATURE. (Not offered in 1944–45.)

Social types and problems as represented in English epic and romance, allegory, lyric, and satire. Special study of Chaucer and his contemporaries.

Open to seniors who have completed twenty-four hours of work in the department, and to graduate students. Six hours.

328 (1). BIBLIOGRAPHY.

A course designed to acquaint the graduate student with the chief information and procedure requisite for the discovery and use of her material: examination of original texts, study of editions, use of general works of reference, technical periodicals, and special studies in different fields of English literature.

Not open to undergraduates. Required of graduate students in the department. One hour. MISS MANWARING.

329. SEMINAR. SEVENTEENTH CENTURY STUDIES.

Extensive reading in the prose of Burton, Bacon, Donne, Taylor, Fuller, Baxter, Browne, and Sprat; and the poetry of Donne, Herbert, Vaughan, Crashaw, Jonson, Marvell, and Cowley.

Open to seniors who have completed twenty-four hours of work in the department, and to graduate students. Six hours. MISS HAWK.

350. RESEARCH OR INDIVIDUAL STUDY.

On consultation with the department, qualified seniors or graduate students may arrange for directed study in a field in which they have already worked.

Permission to register for this must be obtained before electives are handed in. Two to six hours. The amount of work contemplated must be indicated at the time of handing in the electives.

II. English Composition

101.† Required Freshman Composition.

First semester: exposition. Emphasis on use of source materials. Weekly themes or their equivalent. Second semester: critical and interpretative writing; description; simple narration. Fortnightly themes or their equivalent.

Required of freshmen. Six hours.

MISS DENKINGER, MR. KERBY-MILLER, MISS PRENTISS, MISS CHILD, MISS MICHAEL, MR. WILLIAMS, MISS LEVER, MISS TUTTLE, MISS BROOKS, MISS BERKMAN, MISS GRAHAME, MISS GREEFF.

102 (1). Continuation Course in Composition.

A practical course in various types of expository writing designed to give training in analysis, and in the organization and effective presentation of ideas.

Required of students who have made D grade in the second semester of 101. Three hours. MISS CHILD.

201 (1). The Essay.

A study of the development of the technique of the English essay through the letter, the character, and other literary forms. Varied reading in contemporary essays and frequent practice in writing different types of essays.

Open to students who have completed the requirement in English Composition. Not open to students majoring in Composition who have completed three semesters of grade II work or who are taking another writing course. Three hours.*

MISS JOHNSON, MISS PRENTISS.

203 (1). Studies in Journalistic Writing.

A critical study of selected types of journalistic writing: news story, editorial, special article, book review, dramatic review, as exemplified in typical American and English newspapers and weekly periodicals. Constant practice in writing.

Prerequisite, same as for 201. Three hours.

MR. KERBY-MILLER, MISS LEVER.

204 (2). Studies in Contemporary Writing.

A study of the elements of style, the essay or dialogue, the critical review, the biography, and the sketch. Fortnightly themes or their equivalent.

Prerequisite, same as for 201. Three hours. MISS CHILD.

† If a student submits papers notably deficient in English as part of her work in any department, she may incur a condition in English Composition, whether or not she has completed the requirement in English Composition.

* If such students were exempted from course 101 at midyears, they may take a fourth semester of grade II work.

206 (1). EXPOSITORY WRITING.

The study of methods of making the presentation of facts and ideas clear and interesting. Special attention to the interests and needs of individual members of the class.

Prerequisite, same as for 201. Three hours. MR. WILLIAMS.

207 (2). FREE WRITING.

Practical and creative forms of prose composition with illustrative reading. Types of writing selected in accordance with the interests of individual members of the class. Discussion of papers in class and in conference.

Open by permission to a limited number of students. Special division open to freshmen exempted from 101 at midyears. Prerequisite, same as for 201. Three hours. MISS MICHAEL, MISS DENKINGER.

208 (2). STUDIES IN BIOGRAPHY AND LITERARY PORTRAITS.

Problems and practices that distinguish biography as a developing form of literary art. Emphasis on the contemporary biographer's way of handling his materials. Writing varied and frequent.

Prerequisite, same as for 201. Three hours. MISS PRENTISS.

300 (1). PRACTICAL WRITING TECHNIQUES.

Expository methods used in reports such as are required in government and industry, reports of scientific or literary research, sustained papers related to the student's other courses or special interests. The course will be conducted partly through individual or group conferences.

Open, by permission, to juniors and seniors, both majors and non-majors. Three hours. MISS MICHAEL.

301 (1). THE SHORT STORY.

Study of the specific technical problems of the short story, with some consideration of its historical development and of contemporary trends in England and America. Four original short stories and occasional critical reports.

Open to juniors and seniors who have completed the requirements in English Composition. Two hours.

MISS JOHNSON, MISS DENKINGER, MISS PRENTISS.

302 (2). CRITICAL STUDIES IN MODERN PROSE.

A consideration of the background and development of modern English prose in narration and exposition, with special emphasis on literary criticism. One long narrative and three critical papers.

Open to juniors and seniors who have completed the requirement in English Composition. Two hours. MISS JOHNSON, MISS DENKINGER.

303. CRITICISM.

The philosophy and practice of literary criticism, with special study of the *Poetics* of Aristotle, the critical tenets of neo-classicism, and modern attitudes in criticism resulting from the Romantic movement. Lectures and frequent short critical papers.

Open to juniors and seniors. Two hours. MISS JOHNSON.

304. SENIOR COURSE IN COMPOSITION.

Advanced study of techniques of writing, including one long original play or dramatization; one sustained piece of writing (fiction or factual) involving artistic treatment; and short critical papers.

Open to seniors who have completed six hours of grade II and at least four hours of grade III. Six hours. MISS MANWARING, MISS JOHNSON.

305 (2). THE MAGAZINE ARTICLE.

Monthly or fortnightly articles and collateral reading in American and British magazines, with special reference to the student's own interests and resources. This course may be elected separately or as a continuation of 300.

Prerequisite, six hours of grade II. Three hours. MR. KERBY-MILLER.

350. RESEARCH OR INDIVIDUAL STUDY.

Open, by permission, to graduate students. Two, four, or six hours.

DIRECTIONS FOR ELECTION

I. MAJOR IN ENGLISH LITERATURE

Distribution of work: Course 101, six hours of grade II work, and two courses of grade III, form the usual sequence for the minimum English Literature major. It is possible to begin a major in the junior year by entering a grade II course. Concentration on any one period or type is not advised for majors. Proper distribution should be insured by conference with the 101 instructor, and with the chairman of the department in the spring of the sophomore year.

The following courses in English Literature are not counted in the major: 104, 210, 212, 213.

Related courses: Related courses for concentration may be chosen from many fields. Knowledge of at least one foreign literature, and ability to read certain foreign languages, ancient and modern, is of great value to the student of English Literature. Understanding of the history of the periods in which the literature is studied is also important. In English Composition special attention is called to 201, 208, 303; in the classical departments, to Greek 203, 204, 207, and Latin 105, dealing with Greek and Latin literature in translation; in Italian, to 103, Introduction to the Study of the Italian Renaissance. The attention of students who are interested in the teaching of English is called to Education 307, The Teaching of English in the Secondary School.

GENERAL EXAMINATION IN ENGLISH LITERATURE

The examination will consist of questions covering the courses included in the English Literature major. In this list there will be a sufficient number of questions to insure a fair opportunity for choice. Each student will select the questions dealing with the subjects she has studied in her own major. The questions will seek to test: (1) The student's knowledge of authors, works, types in the periods included in her major; (2) her intelligence and accuracy in correlating her knowledge; (3) her independence of judgment and her literary discrimination.

II. MAJOR IN ENGLISH COMPOSITION

Distribution of work: English Composition 101, required of all students, will not be counted as part of the major in Composition. For a twenty-four-hour major the following combination is recommended: two or more semester courses of grade II (see restrictions under individual courses); twelve hours of grade III, in which 303 must be included. At least six hours above grade I of English Literature must be included.

NOTE: No two writing courses may be taken at the same time, but English Composition 303 and courses in English Literature may be taken simultaneously with a writing course. Courses 209 and 312 in English Literature are counted as courses in Composition, and may be included in a twenty-four-hour major in English Composition together with six hours of English Literature above grade I. Work in Composition for the senior year of such a major must be of grade III: 304 or 350 (year); or some combination of 300, 301, 302, 305, 350 (semester).

Related courses: Students intending to teach or to engage in literary work should include in their program additional courses in English Literature. Some knowledge of Latin and Greek literature in the original or in translation is highly important for a teacher of English, as is a background of history, especially English history. The attention of students who are interested in the teaching of English is called to Education 307, The Teaching of English in the Secondary School.

GENERAL EXAMINATION IN ENGLISH COMPOSITION

The general examination in English Composition will include questions on the theory—on the principles of craftsmanship—underlying the specific courses the student has taken; it will include a study of the forms of description, narration, and exposition in their general aspects; a study of differing types of essay, of biography, of criticism; a study of the historical development of the sentence, of the paragraph, and of the linguistic elements composing our vocabulary. The student will be expected to organize her answers clearly and to write with reasonable fluency and finish. Supplementary reading and detailed instructions will be given in a department statement to majors.

III. JOINT MAJORS

a. JOINT MAJOR IN LITERATURE AND COMPOSITION

Distribution of work: This major consists of twelve hours of English Composition beyond Composition 101, and eighteen hours of English Literature. A student may elect further work in either Literature or Composition, or both, or in some related subject, as part of the forty-two hours in her field of concentration.

The courses in Composition should include six hours of grade II and six hours of grade III. Students exempted from Composition 101 at midyears should complete the year with a Composition course of grade II.

The courses in Literature should include at least six hours of grade II and six hours of grade III. One of the following courses not counted in the Literature major may count as part of the joint major: 210, 212. In general, one of the Literature courses elected should deal with a period earlier than the nineteenth century.

Related courses: The background of related courses to be desired for this major is the same as that described under the majors in Literature and Composition.

General examination: This joint examination will consist of a combination of questions selected from the general examinations set for English Literature and English Composition. The questions will deal with the material in both fields included in the student's program for the joint major.

b. JOINT MAJOR WITH EMPHASIS ON DRAMA

Distribution of work: This major consists of eighteen hours of English Literature, fourteen hours of English Composition beyond 101, and six hours of Speech. It should ordinarily be made up as follows:

English Literature: 101 or 104; six hours of grade II (221–222 or 212 supplemented by any semester course of grade II, or by 210); and six hours of grade III (309).

English Composition: at least six hours of grade II (including 207 taken preferably in the junior year) and eight hours of grade III (303 and 304). Students exempted from 101 at midyears who are considering this major should choose another grade II course or a course in another department in order to take 207, with emphasis on drama, in the junior year. Course 304 may be devoted mainly to play-writing by students choosing this major.

Speech: 203, Theatre Workshop.

General examination: Students taking this major will be examined in the general examination upon thirty hours of work selected from the courses listed above.

Students who wish may include other courses in drama in the field of concentration, *e.g.*, French 212, 213, German 308, Greek 203, 301, Italian 307, 310, Latin 203, Music 323, Spanish 104, 204, 301, Speech 201, 205.

FRENCH

Professors: RUTH ELVIRA CLARK, LITT.D. (Chairman)
RENÉ ESCANDE DE MESSIÈRES, AGRÉGÉ DE L'UNIVERSITÉ.
ANDRÉE BRUEL, DOCTEUR DE L'UNIVERSITÉ DE PARIS.
Associate Professors: DOROTHY WARNER DENNIS, B.A., DIPL.E.U.
FRANÇOISE RUET LIVINGSTON, M.A., AGRÉGÉE DE L'UNIVERSITÉ.
MARJORIE HENRY ILSLEY, DOCTEUR DE L'UNIVERSITÉ DE PARIS.
Assistant Professor: EDITH MELCHER, PH.D.
Instructors: MARIE-HÉLÈNE PAULY, DOCTEUR DE L'UNIVERSITÉ DE PARIS.
MARIE ANTOINETTE BRÉBANT TATUM.
Assistant: GABRIELLE JULIETTE PERRIN, B. ÈS LET.

Lecturer: CHRISTIANE MARIE ELISABETH HENRY, C.E.S., ADMISSIBILITÉ AGRÉGATION.

THE JUNIOR YEAR IN FRANCE

From 1926 to 1939 well qualified juniors were allowed to spend the junior year in France with the Foreign Study Group of the University of Delaware. It is hoped that this arrangement may be resumed, when circumstances permit.

101. ELEMENTARY COURSE.

A practical study of French pronunciation, phonetic drill; the practical study of French grammar; readings on French life and French institutions; selected readings from modern writers. Constant oral drill and frequent written work.

Open to students who do not present French for admission. Three class appointments and one group conference. Six hours.

MISS DENNIS, MISS MELCHER.

102. SELECTED READINGS FROM MODERN FRENCH AUTHORS DEALING WITH LIFE IN DIFFERENT REGIONS OF FRANCE.

These texts serve as a basis for a systematic review of syntax introductory to theme writing and oral narrative, and a practical study of French pronunciation with phonetic drill.

Prerequisite, 101, or two admission units in French. Three class appointments and one group conference. Six hours. MISS CLARK, MRS. ILSLEY.

103. FRENCH LIFE AND INSTITUTIONS.

Modern plays and novels dealing with aspects of French contemporary life. Stress on grammar, vocabulary and pronunciation. Frequent themes.

Prerequisite, three admission units in French. This course is intended for students who need further training in the spoken and written language. Students whose classroom work has been conducted mainly in English are advised to elect this course rather than 104. Not open to students who have completed 104. Six hours. MISS MELCHER, MISS HENRY, MISS PAULY, MRS. TATUM.

104. INTRODUCTION TO THE STUDY OF FRENCH LITERATURE.

Representative texts of various periods. The aim of this course is to prepare students for more advanced work in language and literature, acquainting them with French methods of literary study. It provides an historical and geographical background and includes a study of pronunciation, grammar, and vocabulary, as well as application of *lecture expliquée* methods. Constant practice in the written and spoken language. Outside reading of representative novels.

Prerequisite, three admission units in French or 102. Students whose classroom work has been conducted mainly in French are advised to elect this course rather than 103. It is not open to students who have taken 103. Six hours.

MISS MELCHER, MISS HENRY, MISS PAULY, MRS. TATUM.

105. STUDIES IN LANGUAGE. I.

Reading, composition, translation, grammar.

Prerequisite, three admission units in French. Two hours. MISS DENNIS.

201. FRENCH CIVILIZATION BEFORE THE REVOLUTION.

An introduction to the civilization of France, as revealed in history, art, and selected literary masterpieces. Emphasis on language as a preparation for later courses.

Prerequisite, 103, or 104 or four admission units in French; by permission, 102 or another six-hour course of grade II. Six hours.

MRS. LIVINGSTON, MISS DENNIS, MRS. TATUM.

202. STUDIES IN LANGUAGE. II.

Composition, translation, grammar. Weekly written work.

Prerequisite, 103 or 104 or four admission units in French. Two hours.

MISS PAULY.

204. FRENCH LITERATURE OF THE MIDDLE AGES AND THE RENAISSANCE.

The texts studied include *La Chanson de Roland*, *Tristan et Iseult*, *Le Roman de la Rose*, and selections from Villon, Rabelais, Montaigne, and la Pléiade. The mediæval texts are read in modern French versions.

Prerequisite, 104 or, by permission, 103; exceptionally, 201. Six hours.

MISS BRUEL.

205. STUDIES IN LANGUAGE. III.

Composition, translation, grammar. Weekly written work. Stress on translation.

Prerequisite, 202 or 201 or 204 or 207; open to others by permission. Two hours. MRS. LIVINGSTON.

206. FRENCH SPEECH.

A comparison of French and English speech habits with scientific training in French diction and intonation. Individual and choral recitation. Work with phonograph records and recordings of students' voices.

Open to students who have completed 102, 103 or 104, and to those who have taken or are taking a grade II or a grade III course in French. Specially recommended to students majoring in French. Two class periods a week and one hour of practice work. Two hours. MISS DENNIS.

208. CONVERSATION.

Additional practice in the spoken language to build up the student's vocabulary while giving some insight into French current events and various aspects of French life in relation to present-day problems. Class discussion based on French periodicals, newspapers, or recent books.

Prerequisite, 103 or 104, or four admission units in French. Two hours.
MISS BRUEL, MISS PAULY, MRS. TATUM.

209.† SURVEY OF FRENCH LITERATURE. (Not given in 1944–45.)

First semester: an introductory study of the Middle Ages and the Renaissance; the seventeenth century. Second semester: the eighteenth and nineteenth centuries. Lectures or class discussion of selected masterpieces, short papers, outside reading. (Primarily for non-majors.)

Prerequisite, 103, 104, and exceptionally 201. Not open to students who have completed 210. Six hours. MISS MELCHER.

210.† SURVEY OF FRENCH LITERATURE. (Not offered in 1944–45.)

The same periods and writers will be studied as in 209, but English will be used in the classroom and for all written work. Texts studied will be in French. This course may not be counted toward a major in French, nor may it be followed by a grade III course except by permission.

Open to juniors and seniors without prerequisite, and, by permission of the instructor, to sophomores. A sufficient reading knowledge of French is required. Not open to students who have completed 209. Six hours. MISS MELCHER.

211. FRENCH FOR PRESENT-DAY PROBLEMS.

An introduction to the study of the economic and social background of present-day France; living conditions and problems of reconstruction. Oral work of a practical nature stressing specialized vocabularies connected with nutrition, child hygiene, nursing, transportation, and similar topics. Written work including training in correspondence.

Open to juniors and seniors who have completed six hours of grade II or by special permission of the department. Four hours. This course will count toward a major only in conjunction with two full grade III literature courses and the language courses 308–310. MISS BRUEL.

† Courses 209 and 210 will be offered in alternate years.

212 (1). FRENCH DRAMA BEFORE THE REVOLUTION.

A survey of the theatre in the Middle Ages, the Renaissance, the XVIIth and XVIIIth centuries.

Prerequisite, 104 or a six-hour course of grade II, or, by permission, 103. Three hours. MR. DE MESSIÈRES.

213 (2). FRENCH DRAMA IN THE NINETEENTH AND TWENTIETH CENTURIES.

A study of the *drame romantique*, the comedy of manners, and the problem play, the *théâtre libre*, trends in modern drama before 1940.

Prerequisite, 104 or a six-hour course of grade II, or, by permission, 103. Three hours. MR. DE MESSIÈRES.

301. THE CLASSICAL PERIOD OF FRENCH LITERATURE.

The development of French classical literature in the seventeenth century. The authors studied are: Malherbe, Descartes, La Rochefoucauld, Corneille, Pascal, Molière, La Fontaine, Mme de La Fayette, Boileau, Bossuet, Racine, La Bruyère, Fénelon.

Open to students who have completed 201 with a grade of at least C, or 204 or 207, or, by permission, 209, also to seniors who are taking six hours of grade II. Six hours. MISS CLARK, MISS HENRY.

305. THE EVOLUTION OF THE FRENCH NOVEL.

Intensive reading of representative masterpieces; mediæval romances and stories; novels of the classical period and XVIIIth century, such as *l'Astrée, la Princesse de Clèves, Manon Lescaut, la Nouvelle Héloïse;* XIXth century, including works of Stendhal, Balzac, Flaubert, Maupassant and Barrès. Approximately a paper a fortnight.

Open to juniors and seniors who have completed 204 or 207, or who are taking a course of grade III. Six hours. MISS BRUEL.

306. NINETEENTH CENTURY LITERATURE. ROMANTICISM.

A study of the romantic movement in French literature; the great novelists and poets of that period: Lamartine, Vigny, Victor Hugo, Musset, Chateaubriand, Mme. de Staël, Benjamin Constant, Balzac, Stendhal.

Open to juniors and seniors who have completed a full grade III course, and to approved juniors and seniors who have completed 204 or 207. Six hours. MR. DE MESSIÈRES.

307. CONTEMPORARY FRENCH LITERATURE.

The evolution of French poetry from Baudelaire to the present day, with special studies of Baudelaire, Verlaine, Rimbaud, Claudel, Valéry, Mme. de Noailles, etc. The masters of French prose during the same period: Barrès, Bergson, Gide, Proust, Giraudoux, Mauriac, Maurois, J. Romains, etc.

Open to seniors who have completed 301 or 302 or 305 or 306 and, exceptionally, by permission, to seniors who have completed 204 or 207. Six hours.

MR. DE MESSIÈRES.

308 (1). STUDIES IN LANGUAGE. IV.

Advanced composition and translation.

Open to juniors and seniors who have completed or are taking a six-hour course of grade III, and, by permission, to juniors and seniors who have completed 205. Two hours. MRS. LIVINGSTON.

310 (2). STUDIES IN LANGUAGE. IV.

The same as 308, with different subjects and texts.

Open to juniors and seniors who have completed or are taking a six-hour course of grade III, and, by permission, to juniors and seniors who have completed 205. Two hours. MRS. LIVINGSTON.

311 (1). EIGHTEENTH CENTURY LITERATURE: THE AGE OF ENLIGHTENMENT. (Not given in 1944–45.)

The development of liberal, humanitarian, and democratic ideas, with stress on the writings of Montesquieu, Voltaire, and the *philosophes*.

Open to juniors and seniors who have completed 204 or 207, or, by permission, 209, or who have taken a grade III course. Three hours. MISS MELCHER.

312 (2). EIGHTEENTH CENTURY LITERATURE: THE RETURN TO SENSIBILITY. (Not given in 1944–45.)

The transition from neo-classicism to romanticism, with special study of the works of Diderot and Rousseau.

Open to juniors and seniors who have completed 204 or 207, or, by permission, 209, or who have taken a grade III course. Three hours. MISS MELCHER.

320. SEMINAR. CURRENTS OF THOUGHT IN THEIR RELATIONSHIP TO FRENCH LITERATURE. (Not given in 1944–45.)

The analysis and interpretation of such subjects as the rise and evolution of the democratic ideal in France, the French Renaissance, conflicts of ideas in the XVIIIth century, the evolution of French romanticism, trends in present-day literature.

Open to graduates and approved seniors. Six hours. MR. DE MESSIÈRES.

321. MEDIÆVAL LANGUAGE AND LITERATURE.

Open to graduate students who have completed twenty-four hours of college French, and, by permission, to seniors who have completed the same amount of work. Six hours. MISS BRUEL.

322 (1). SEMINAR. INTENSIVE STUDY OF ONE AUTHOR. PROSE. (Not given in 1944–45.)

The life and works of a prose writer in relation to the social history and literary trends of the period. A single author of outstanding importance will be selected, such as Montaigne, Pascal, Molière, Voltaire, Rousseau, Balzac, Flaubert or Proust.

Open to graduates and approved seniors. Three hours. MR. DE MESSIÈRES.

323 (2). SEMINAR. INTENSIVE STUDY OF ONE AUTHOR. POETRY. (Not given in 1944–45.)

Similar to 322. The author studied might be one of the following: Racine, Lamartine, Victor Hugo, Baudelaire, Paul Valéry.

Open to graduates and approved seniors. Three hours. MR. DE MESSIÈRES.

350. RESEARCH OR INDIVIDUAL STUDY.

Open, by permission, to graduates and to approved seniors who have completed at least one full grade III course in the department and are taking another full grade III course. Two to three hours for a semester or four to six hours for a year. The amount of work contemplated must be stated at the time of handing in electives.

DIRECTIONS FOR ELECTION

I. Course 101 counts for the degree but does not count towards a major.

Course 102 counts for the major only if directly followed by a six-hour course of grade II.

Students planning to major in the department should not carry two six-hour courses of grade II without permission of the department.

II. Course 202 taken in the sophomore year, 205 in the junior year and 308, 310 in the junior or senior year will be valuable to students majoring in French. Course 206 will give additional training in diction.

III. Students majoring in French literature are advised to include 301 in their program. Students proposing to elect French 307 in the senior year are advised to elect 306 in the junior year.

IV. Special attention is called to Education 303, which is open to seniors who are taking French 301, 302, 305, 306, or 307.

RELATED COURSES SUGGESTED FOR ELECTION

French 301: Greek 203 (Greek Literature in English Translation), Latin 105 (Latin Literature in English Translation), and courses in Italian and Spanish Literature including the XVIth century.

French 302: History 102, 201, English Literature 218, 310.

French 305: English Literature 214, 218.

French 306: History 201, English Literature 313, German 305, Italian 202, Spanish 301.

GENERAL EXAMINATION

The general examination in French will consist of two parts:

Part I. French Literature. Three hours.

Part II. French Language. Two hours.

Part I will consist of one or two general questions stressing interrelations of the more advanced courses.

Part II will consist mainly of translation from French into English, and English into French.

GEOLOGY AND GEOGRAPHY

Professor: MARGARET TERRELL PARKER, PH.D. (Chairman)
Associate Professor: LOUISE KINGSLEY, PH.D.
Assistant Professor: ALICE MARY DOWSE, M.A.
Instructor: ELIZABETH EISELEN, PH.D.
Custodian and Assistant: GWENYTH MORGAN RHOME, M.A.

Lecturer: RUSSELL GIBSON, PH.D.

101.* GENERAL GEOLOGY.

First semester: Physiography. A course designed to develop understanding of the physical features of landscapes, by explaining the processes by which land forms originate and are modified, and the rocks and minerals of the earth's crust upon which these processes work. Many areas in the United States and elsewhere are studied as illustrations. Foundations are laid for interpreting past geologic history, and for understanding the relations of topographic features to human occupation. Second semester: Historical Geology. The origin of the earth and the sequence of geologic events by which its present characters have been developed, including the origin of valuable mineral deposits. The evolution of life on the earth.

Open to all undergraduates. Six periods a week: in general, three of lecture or discussion and three of laboratory work. Occasional afternoon field trips will be substituted for laboratory work. Six hours.

MISS PARKER, MISS KINGSLEY, MISS DOWSE, MISS EISELEN, MISS RHOME.

GEOLOGY

103. GEMS AND GEM MINERALS.

Precious and semi-precious stones: physical properties of minerals necessary for an appreciative understanding of gems. Methods of identification of gem minerals and relation of crystal structure to the beauty and cutting of gems. History and development of the gem-cutting industry and the importance of gems in history. Practice in simple cutting of semi-precious stones.

Open to all undergraduates. Two periods a week for lecture and laboratory work. Two hours. MISS DOWSE.

201 (Summer). GEOLOGY OF GLACIER NATIONAL PARK. FIELD COURSE. (Not offered in 1944.)

A course designed to illustrate in the field the concepts gained previously in a general course in geology and to give the student an opportunity to apply such knowledge in working out an interpretation

* The first semester of Geology 101 may be elected, to be followed by Geography 102 in the second semester (see Geography, page 89). Students more interested in Geography than in Historical Geology are advised to elect this combination. The first semester of Geology 101 may be elected separately only if it is followed by Geography 102.

of the geologic history of a specific region. A report on the study of the Park is required.

Open to students who have completed 101 and to women students from colleges other than Wellesley who have had a year course which includes physical and historical geology and who present satisfactory credentials. Three hours.

202 (1). MINERALOGY.

A study of minerals, including those which are economically valuable and those which are essential constituents of rocks. Identification and determination of the composition of all the better known minerals by means of physical properties and blowpipe analysis. The modes of occurrence of minerals and the industrial uses to which they are put.

Prerequisite, Geology 101 or 103, or Chemistry 101. Two three-period appointments a week for lecture and laboratory work. Three hours. MR. GIBSON.

203 (2). MAP MAKING.

For description and prerequisites, see Geography 203.

204 (1). GEOMORPHOLOGY.

Advanced study of land forms, with illustrations from many parts of the world, and reading from original sources. Comparison of the conceptions of American and European geomorphologists. Shore processes and glacial features studied in the field. Emphasis in laboratory work on methods by which the development of land forms is determined, such as study of aerial photographs and making of projected profiles.

Prerequisite, 101. Two two-period appointments a week for lecture and laboratory work. Occasional field trips will be substituted for class work. Three hours. MISS DOWSE.

205 (2). PALEONTOLOGY. (Not given in 1944–45.)

The facts and principles of organic evolution as revealed by the life of the past. The steps in the development from simple, generalized forms to more complex and specialized types illustrated by a comparative study of fossils.

Prerequisite, Geology 101, Zoölogy 101, or Botany 101. Two two-period appointments for lecture, class discussion, and laboratory work, with independent laboratory assignments. Three hours. MISS KINGSLEY.

206 (2). REGIONAL GEOLOGY OF NORTH AMERICA.

A systematic study of the United States, Canada, and Mexico by physiographic provinces, dealing with the geologic history, the kinds of rocks (including the economically important rocks), the structures and their relations to topography.

Prerequisite, 101. Two two-period appointments a week; in general three of lecture and one of laboratory. Three hours. MISS DOWSE.

301 (2). FIELD GEOLOGY. (Not offered in 1944–45.)

Methods of field study. The course is designed to train the student to make a topographic map, and to interpret and map the geology of a region.

Open to juniors and seniors who have completed 101 and a grade II course in geology. One three-period lecture or laboratory appointment, or one afternoon in the field, with independent field work related to the student's special problem. In addition to the scheduled appointment, students registering for 301 should keep at least three other consecutive periods available for independent work on field problems. Three hours. MR. GIBSON.

312 (1). CRYSTALLOGRAPHY.

Crystal systems. Principles of optical crystallography. Determination of minerals by means of their optical constants.

Open to juniors and seniors who have completed 202. Juniors and seniors majoring in chemistry or in physics may be admitted to the course upon the recommendation of the two departments concerned. Two two-period appointments a week for lecture and laboratory work. Three hours. MISS KINGSLEY.

314 (1). STRUCTURAL GEOLOGY.

Description and interpretation of rock structures. The origin and structure of mountain ranges. Opportunity is offered for individual study of areas of special interest. Laboratory work includes interpretation of geologic maps, the drawing of cross-sections, and graphical solution of problems.

Open to juniors and seniors who have completed 101 and a grade II course in geology. Two two-period appointments for lecture and laboratory, with occasional field trips. Three hours. MISS KINGSLEY.

315 (2). VULCANISM AND IGNEOUS ROCKS.

Extrusive and intrusive phases of vulcanism. Description, identification, and origin of igneous and related metamorphic rocks. Particular emphasis is placed on regional studies. A portion of the work will consist of individual reports on special areas.

Open to juniors and seniors who have completed 101 and 202. Two two-period appointments for lecture and laboratory, with occasional field trips. Three hours. MISS KINGSLEY.

316 (2). ECONOMIC GEOLOGY.

A study of economically valuable mineral deposits, both metallic and non-metallic. The origin, composition, and geological and mineralogical relations of these deposits; their geographic distribution and political significance.

Open to juniors and seniors who have completed 101 and 202. Two two-period appointments for lecture, class discussion, and laboratory. Three hours. MISS KINGSLEY.

350. RESEARCH OR INDIVIDUAL STUDY.

The subject of study will be determined by the preparation of the student and by her special interests. Her work will be under the direction of the member of the department in whose field the subject lies.

Open, by permission, to juniors and seniors who are majoring in the department. Three hours for a semester or six hours for a year.

SUMMER FIELD WORK. Credit may be given advanced students for summer field work, plans for which are approved in advance by the department. The amount of credit will depend upon the nature and extent of the work.

GEOGRAPHY

102 (2). INTRODUCTORY GEOGRAPHY.

World distribution, and the principles underlying distribution, of the various elements of the natural environment: relief features, soils, climates, natural vegetation, water and mineral resources. Types of human adjustments to environment. Resultant world cultural patterns.

Open to students who have completed the whole or only the first semester of 101. Six periods a week: in general, three of lecture or discussion and three of laboratory work. Occasional afternoon field trips will be substituted for laboratory work. Three hours. MISS PARKER, MISS EISELEN.

203 (2). MAP MAKING.

The major problems and processes involved in the making of maps, including military maps. Map scales, grid systems, projections; contouring; drafting; the use of aerial photographs in photomapping; evaluation of source materials; map reproduction.

Open to juniors and seniors, and to sophomores who have completed 101 or 102. Five periods a week of lecture and laboratory work. Three hours.
MISS DOWSE, MISS EISELEN.

208 (1), (2). THE GEOGRAPHY OF EUROPE.

A study of man's adjustments to physical environment in Europe. Topography, climate, and other environmental factors in their relation to the early rise of civilization in Europe, the distribution of races and languages, the partition of the continent into political units, and economic development. Detailed study of selected countries of major interest to American students. Consideration of geographic relationships involved in the current European conflict.

Open to juniors and seniors, and to sophomores who have completed 101 or 102, or who are planning to major in history, economics, or political science. Three hours. MISS PARKER.

209 (1), (2). THE ECONOMIC GEOGRAPHY OF NORTH AMERICA.

A study of man's economic activities as related to environmental factors in the major geographic regions of North America. Particular

consideration is given to those activities of greatest significance in meeting current economic problems. The objective of the course is to develop a clear conception of the elements of the natural environment and to emphasize in the regions studied the important adjustments which man has made to these elements.

Open to juniors and seniors, and to sophomores who have completed 101 or 102, or who are planning to major in history, economics, or political science. Three hours. MISS EISELEN.

304 (1). THE GEOGRAPHY OF SOUTH AMERICA.

The physiographic features, climates, and resources of South America; the influence of these factors upon the colonization of the continent by Europeans, upon the formation of independent political units, and upon the present and possible future economic development of the various countries.

Open to juniors and seniors who have completed a grade II course in geography; by permission, to students of South American history and to students majoring in Spanish. Three hours. MISS EISELEN.

306 (1). CONSERVATION OF NATURAL RESOURCES.

A study of the natural resources of the United States with a view to understanding the need for and the principles governing their conservation. The course includes consideration of the problems of floods, soil erosion, utilization of arid and semi-arid lands, preservation of forests, and intelligent use of mineral and fuel supplies.

Open to juniors and seniors who have had 101, 102, or a course in regional geography. By special permission, to students majoring in economics or in botany. Counts toward a major in geography but not for distribution. Three hours. MISS EISELEN.

307 (1). THE HISTORICAL GEOGRAPHY OF THE UNITED STATES. (Not offered in 1944–45.)

An analysis of the relations between the natural environment and the settlement and development of the country. The adjustments to varied environments in connection with the westward expansion of the American people. An interpretation in selected areas of readjustments made from time to time in response to the changing significance of some element or elements in the environment. A geographic background to American history.

Open to juniors and seniors who have completed 209, and, by permission, to students of American history. Three hours. MISS EISELEN.

308 (2). THE GEOGRAPHY OF ASIA.

A geographic study of Asia as a whole and of selected political units of the Eurasian continent. These units are Asiatic countries with the exception of the Soviet Union, of which the European, as well as the

Asiatic, portion is studied. The course examines the geographic background of various problems of current world importance which have their roots in the geography of Asia. It gives opportunity for application of principles developed in earlier regional courses in interpreting human adjustments to environment in oriental countries.

Open to juniors and seniors who have completed 208. Three hours.

MISS PARKER.

309 (2). CLIMATES OF THE WORLD. (Not given in 1944–45.)

Advanced study of the elements and controls of climate and of the resultant world climatic pattern, with emphasis upon the economic significance of this pattern. Systems of classification of climates.

Open to juniors and seniors who have completed at least one regional course in geography. Three hours. MISS PARKER.

305 (2). SEMINAR IN GEOGRAPHY. (Not offered in 1944–45.)

Topics are assigned to students for independent investigation. Reports of individual work are presented weekly.

Open to graduate students and to approved seniors. Three hours.

MISS PARKER.

350. RESEARCH OR INDIVIDUAL STUDY.

The subject of study will be determined by the preparation of the student and by her special interests. Her work will be under the direction of the member of the department in whose field the subject lies.

Open, by permission, to juniors and seniors who are majoring in the department. Three hours for a semester or six hours for a year.

DIRECTIONS FOR ELECTION

GEOLOGY. A geology major must include 101. Grade II courses should be selected with a view to the type of advanced work which the student desires. Advice from the department should be secured. Chemistry is desirable for students majoring in geology. Those intending to do graduate work in the subject are advised to take German.

GEOGRAPHY. A geography major should include the first semester of 101, 102, 208, 209, and at least twelve hours of grade III work in geography. Students who wish to major in geography will find that this work correlates well with work in history, economics, and other social sciences. For advanced work in the subject, both French and German are useful.

By permission, six hours of closely correlated work in history will be accepted as part of a major in geography.

The attention of students who are interested in the teaching of geography is called to Education 308, The Teaching of Social Studies in the Secondary School.

General Examination

A major offered for the general examination in geology must include 101; that for the general examination in geography must include the first semester of 101 and 102.

With the possible exception of questions based upon the first semester of 101, entirely different examinations will be set for the students majoring in geology and those majoring in geography. Some choice of questions will be possible. The questions will test ability to correlate the subject matter of the various courses covered and to apply the principles made familiar through these courses in the interpretation of new situations and the solution of new problems.

The department will suggest supplementary summer reading for those students who desire such assistance.

GERMAN

Professor: Marianne Thalmann, ph.d.
Associate Professor: Magdalene Schindelin, ph.d. (Chairman)
Assistant Professor: Barbara Salditt, ph.d.
Instructor: Helen Meredith Mustard, m.a.

The language of the classroom in all courses is almost exclusively German. The student thus has constant practice in hearing, speaking, and writing German.

When international circumstances permit, a limited number of qualified students are permitted to spend the junior year in Munich. A summer term at the German School, Middlebury College, is recommended as stimulating and helpful.

101. Elementary Course.

Study of fundamental elements of German grammar; frequent written exercises; reading of short stories; emphasis on oral expression.

Open to students who do not present German for admission. Six hours.

Miss Thalmann, Miss Salditt, Miss Schindelin, Miss Mustard.

102. Intermediate Course.

Extensive reading with emphasis on vocabulary building; review of fundamental principles of grammar; frequent composition and oral expression; discussion of German culture.

Prerequisite, 101 or two admission units in German. Six hours.

Miss Schindelin, Miss Mustard.

104. Outline History of German Literature.

First semester: an introduction to German literature from its beginning to the eighteenth century. Second semester: an introduction to the eighteenth century, Schiller and Goethe.

Open to freshmen who present three or more admission units in German. Six hours.

Miss Salditt.

202. HISTORY OF GERMAN LITERATURE.

Introduction to German literature; the parallel development of literature, social conditions, and religious ideals of the times. Works read and discussed are: the *Hildebrandslied*, selections from the *Niebelungenlied*, the works of Wolfram, Gottfried, Hartmann, the Minnesingers; *Volkslied*, selections from Luther, Hans Sachs, Lessing, Herder, Schiller Goethe.

Prerequisite, 102 or, by permission, 101. Six hours.

MISS SALDITT, MISS SCHINDELIN.

204. GOETHE AND SCHILLER.

Their lives and their works. Their literary growth studied with emphasis on their development from "Sturm und Drang" to classicism and considered in relation to eighteenth century German literature. Special references to parallel developments in other literatures.

Prerequisite, 104 or 202. Six hours. MISS SALDITT.

205. SCIENTIFIC GERMAN.

Translation from works of German scientists.

Prerequisite, 102 or 104 or, by permission, 101. Two hours.

MISS THALMANN.

206. CONVERSATION.

Class discussions will be based on readings of varied authors and subject matter.

Prerequisite, 102 or 104, or, by permission, 101. Two hours.

MISS MUSTARD.

207. ADVANCED COMPOSITION.

Individually supervised language work; composition, translation, grammar.

Prerequisite, 202 or 206, or, by permission, 104. Two hours.

MISS MUSTARD.

208. GERMAN LIFE AND THOUGHT IN THE NINETEENTH AND TWENTIETH CENTURIES.

The development of intellectual and æsthetic trends in the nineteenth and twentieth centuries. Varied literary texts; pamphlets, letters, memoirs of musicians, scholars, artists, and statesmen.

Open to students who have completed 104 or 202 and, by special permission, to other students with sufficient knowledge of German. Six hours.

MISS THALMANN.

302 (2). HISTORY OF THE GERMAN LANGUAGE. (Not offered in 1944–45.)

A more thorough understanding of modern German through the study of its historical development.

Open to juniors and seniors who have completed six hours of grade II. Three hours.

303 (2). MIDDLE HIGH GERMAN. (Not offered in 1944–45.)

(Introductory Course.) Survey of Middle High German forms and sounds. Translation of epic and lyric poetry into the modern idiom.

Open to juniors and seniors who have completed at least six hours of grade II. Three hours.

304 (1). GOETHE'S FAUST.

Study of the pre-Goethean development of the Faust legend in its more important literary forms. Intensive study of Goethe's *Faust*, Part I; extensive study of Part II.

Open to seniors who have completed six hours of grade II and to juniors by special permission. Three hours. MISS THALMANN.

305 (2).* THE GERMAN ROMANTICISTS.

A study of early romantic philosophy and significant writers of the period: Schelling, Novalis, the Schlegels, Tieck, E. T. A. Hoffmann, Schopenhauer.

Prerequisite, at least one course of grade III. Three hours. MISS THALMANN.

306 (2).* FROM LESSING TO HERDER. (Not offered in 1944–45.)

Literary trends in the eighteenth century. Extensive selections from Lessing, Herder, and Winckelmann.

Open to juniors and seniors who have completed 304. Three hours. MISS SALDITT.

308 (2). NINETEENTH CENTURY DRAMA.

Special study of Kleist, Grillparzer, Hebbel, Ibsen, Hauptmann, Schnitzler, Hofmannsthal, Strindberg, Wedekind; their relation to classic and romantic art and other literatures.

Prerequisite, one course of grade III. Three hours. MISS THALMANN.

309 (1). SEMINAR. SCHILLER AS PHILOSOPHER AND WRITER ON ÆSTHETICS. (Not offered in 1944–45.)

Study of Schiller through his correspondence with Körner, Goethe, etc., and through his philosophic poems and essays.

Open to seniors who have completed 204 and at least six hours of grade III. Three hours.

312 (1). LITERATURE OF THE MODERN PERIOD.

A study of the outstanding authors of the late nineteenth and early twentieth centuries. Discussion of naturalism, new romanticism, expressionism, and post-expressionism.

Open to students who have completed 204 or 208 and to seniors by special permission. Three hours. MISS SCHINDELIN.

* Courses 305 and 306 will be offered in alternate years.

350. RESEARCH OR INDIVIDUAL STUDY.

Open to graduate students, and, by permission, to seniors. Three hours for a semester or six hours for a year.

DIRECTIONS FOR ELECTION

Course 101 may be counted for the degree but not for the major.

Course 102 may count for the major.

Students who start with 101 in college and desire to major in German should consult the department in order to obtain permission to omit 102 and take 202 and 205 or 206.

Students intending to major in the department are requested to take 104 or 202 and at least twelve hours of grade III work.

Course 207 will give individually supervised language study.

Students intending to teach German will be recommended by the department only if they have taken from six to twelve hours of grade III and 206 or 207.

The department accepts any of the languages (including Latin and Greek) for the reading language test.

GENERAL EXAMINATION

The questions will test (1) the student's ability to use the German language correctly, (2) her knowledge of the historical development of German literature, (3) her ability to correlate her knowledge of the courses taken in the department.

GREEK

Associate Professors: HELEN HULL LAW, PH.D.
BARBARA PHILIPPA MCCARTHY, PH.D. (Chairman)

101. BEGINNING GREEK.

The fundamental facts of Greek grammar with practice in reading and writing. Selections from the great writers of prose and poetry.

Open to students who do not present Greek for admission. Six hours. MISS LAW, MISS MCCARTHY.

102. MODERN GREEK.

Practice in speaking and writing the Greek of today.

Open by permission of the instructor. Two hours. MISS MCCARTHY.

104. CLASSICAL MYTHOLOGY.

The more important myths of the classical period in relation to the literature, art, and religion of ancient times; their influence on the literatures of succeeding periods. This course may not be counted toward a major in Greek.

Open to all undergraduates. Two hours. MISS LAW.

201 (1). PLATO.

Apology, Crito and selections from other dialogues.

Prerequisite, 101 or two or three admission units in Greek. Three hours.

MISS LAW.

205 (2). HOMER.

Selected books of the *Iliad.*

Prerequisites, 101 and 201; or two admission units in Greek and 201; open to others by permission. Three hours. MISS MCCARTHY.

202 (2). HOMER.

Selected books of the *Odyssey* or other material selected to meet the needs of the class.

Prerequisites, three admission units in Greek and 201, or 205. Three hours.

MISS MCCARTHY.

203 (1). GREEK LITERATURE IN ENGLISH TRANSLATION: EPIC, TRAGEDY.

Reading of the *Iliad* and *Odyssey*, and plays of Æschylus, Sophocles, and Euripides. Lectures on the origin of epic poetry and tragedy and their influence on later literature. This course may not be counted toward a major in Greek.

Open to juniors and seniors without prerequisite, and to sophomores who have completed a course in literature in any department. (This does not include a beginning course in a foreign language.) Three hours. MISS MCCARTHY.

207 (2). GREEK LITERATURE IN ENGLISH TRANSLATION: HISTORY, COMEDY, PHILOSOPHY.

Reading mainly from the histories of Herodotus and Thucydides, the comedies of Aristophanes, Plato's *Republic.* Special emphasis on social, political, and ethical ideas and their literary setting. This course may not be counted toward a major in Greek.

Prerequisite, same as for 203. Three hours. MISS LAW.

213 (1). THE EPIC AS A CONTINUING TYPE IN GREEK, LATIN AND ENGLISH LITERATURE.

For description and prerequisites, see English Literature 213.

206 (1). WRITING OF GREEK. (Not given in 1944–45.)

Review of the essentials of grammar and syntax. Written exercises based on prose selections to be read at sight in class.

Open to students who have completed 101 and are taking another course in the department other than 203 and 204. Three hours. MISS MCCARTHY.

301. GREEK DRAMA.

Reading and study of dramas of Æschylus, Sophocles, Euripides and Aristophanes.

Prerequisite, 201 and 205 or 202. Six hours. MISS MCCARTHY.

302. Greek Poetry from Homer through Theocritus.

Epic, lyric, and pastoral poetry.

Prerequisite, 201 and 205 or 202. By permission, students may elect either semester as a semester course. Six hours. MISS LAW.

306. Greek Prose from Herodotus through Lucian.

Reading from Herodotus, Thucydides, Plato and Lucian, varying from year to year according to the needs and desires of the class.

Prerequisite, 201 and 205 or 202. By permission, students may elect either semester as a semester course. Six hours. MISS LAW.

350. Research or Individual Study.

Open to seniors by permission, and to graduate students. Three hours for a semester or six hours for a year.

Directions for Election

Students majoring in Greek are advised to elect some work in Latin. Their attention is also called to the courses in Greek history, classical art, and Greek philosophy. Students interested in classical archæology are referred to the statement on page 60 in regard to a major in that field.

For courses in the study of Greek Testament, see Biblical History.

General Examination

The general examination in Greek will be given in two parts. In the first part students will be expected to show an acquaintance with the origin, development, and characteristics of the various types of literature studied together with the background of history, religion, and myth. The second section of the examination will consist of passages for sight translation with questions on language and syntax.

HISTORY

Professors: Edward Ely Curtis, ph.d.
Judith Blow Williams, ph.d. (Chairman)
Associate Professor: Evelyn Faye Wilson, ph.d.
Assistant Professors: Henry Frederick Schwarz, ph.d.
Charlotte Elizabeth Goodfellow, ph.d.
Instructor: Mary Martin McLaughlin, m.a.
Lecturers: George Nye Steiger[5], ph.d.
George V. Lantzeff, ph.d.

101. Mediæval and Early Modern Europe.

A study of the origins of modern European civilization and the modification of political, social, and economic institutions under changing conditions: the development of Christianity and Christian churches; the assimilation of the heritage of the ancient world; feudalism and the

[5] Appointed for the second semester only.

rise of the middle class; and the development and expansion of the national state.

Open to all undergraduates. This course or 102 is prerequisite to later election. Six hours. MISS WILSON, MISS MCLAUGHLIN.

102. MODERN EUROPEAN HISTORY.

A survey of conditions in the seventeenth century; the leading movements in the development of modern Europe, such as colonial expansion in the eighteenth century, the Industrial Revolution, the French Revolution, the Liberal and Nationalist movements of the nineteenth century, the emergence of the modern British Empire, the unification of Italy and of Germany, the Great War.

Open to all undergraduates. This course or 101 is prerequisite to later election. Six hours. MISS WILLIAMS, MR. SCHWARZ, MR. LANTZEFF, MISS MCLAUGHLIN.

200. HISTORY OF EUROPE FROM THE DECLINE OF ROME TO THE PRESENT TIME.

The development, out of mediæval society, of national states, industrialization, European expansion overseas, world conflicts. Modern efforts to restore a sense of unity to society. (Primarily for non-majors.)

Open to juniors and seniors, except those who have taken 101 or 102. Six hours. MR. SCHWARZ.

201. HISTORY OF MODERN FRANCE. (Not offered in 1944–45.)

A study of the political, constitutional, cultural, and social development of France from the beginning of the seventeenth century to 1940.

Prerequisite, one full course in History; open by permission to those giving special attention to the study of French. Six hours.

203. THE HISTORY OF GREECE.

A brief survey of the oriental civilizations by which the Greeks were influenced. A study of the social, economic, and political development of the Greek State; Greek civilization in its most significant aspects.

Prerequisite, one course in History; no prerequisite to those who are giving special attention to the classics or Greek philosophy. Six hours.

MISS GOODFELLOW.

204. HISTORY OF ROME. (Not offered in 1944–45.)

A general survey of Roman history. The conclusions of modern archæologists and historians with regard to the earlier period, with main emphasis upon Rome's experiments in government, the attempts of her statesmen to solve the social and economic problems of the Republic, and the Empire, and upon the development of Rome's legacy to the modern world.

Prerequisite, one course in History; no prerequisite to those who are giving special attention to the classics. Six hours. MISS GOODFELLOW.

205 (1). Colonial America.

The foundation and growth of the British Empire in America. Emphasis upon British colonial policy and administration, and upon the causes and course of the American Revolution.

Open to sophomores, juniors, and seniors who have completed or are taking a full course in History. Three hours. MR. CURTIS.

206. Central Europe.

A survey of Central Europe—Germany, Poland, Bohemia, and the Danube Valley—since the fifteenth century; the political evolution of the states in this area, with emphasis on social and cultural developments and relationships.

Open to students who have completed one full course in History or who are giving special attention to the study of German. Six hours. MR. SCHWARZ.

208 (1). International Relations: Near East.

A general view of international relations in the Near East since the Congress of Berlin, with special reference to postwar settlements and to present conditions.

Prerequisite, one course in History. Three hours. MR. LANTZEFF.

209 (2). Political History of Russia.

The forces which made Russia a world power; the development and policy of the autocracy; the struggle for freedom; the existing régime.

Open to all seniors, and to juniors who have completed or are taking another course in History. Three hours. MR. LANTZEFF.

213. History of England.

A general survey of English history, political, social, economic, and cultural, with special emphasis on England's contributions to the modern world. Some attention to England's oversea expansion and the formation of the British Empire.

Open to sophomores, juniors, and seniors who have completed one full course in History or are giving special attention to English Literature, Political Science, Economics, or Sociology. Six hours. MISS WILLIAMS.

214 (2). The Rise of the Latin-American Republics.

A survey of the exploration and conquest of the New World by the Spaniards. Spanish colonial policy and the causes of the revolutionary movement. The wars of liberation and the emergence of the present republics, with special reference to the recent history of Mexico.

Prerequisite, one full course in History. No prerequisite to sophomores, juniors, and seniors who are majoring in Spanish, or have completed Geography 304 or Sociology 306. Three hours. MR. CURTIS.

215 (2). INTERNATIONAL RELATIONS: FAR EAST.

The Orient in the nineteenth and twentieth centuries, with special reference to the politico-economic interests of Europe and America.

Prerequisite, one full course in History. Three hours. MR. STEIGER.

217. EUROPE IN RENAISSANCE AND REFORMATION.

The cultural, religious, and social life of the fourteenth, fifteenth, and sixteenth centuries. First semester: the Renaissance in Italy and France. Second semester: the Protestant and Catholic Reformations on the continent.

Prerequisite, one full course in History. Open, by permission, to students who have completed one full course in Art. Six hours. MISS WILSON.

301. HISTORY OF THE UNITED STATES FROM 1787 TO THE PRESENT TIME.

The formation and development of the Constitution of the United States, with special reference to controlling forces, such as the organization of parties, the growth of democracy, the rise of the slave power, the political effect of the development of the West.

Open to juniors and seniors who have completed one full course in History and have completed or are taking a second course in History or Economics 204, Geography 307, Philosophy 204, or Political Science 201, 202, or 304. Six hours. MR. CURTIS.

304. ENGLAND UNDER THE TUDORS AND STUARTS. (Not offered in 1944–45.)

The Renaissance and Reformation in England; Puritanism and its accompanying democratic ideals; the constitutional struggles of the sixteenth and seventeenth centuries; social and economic changes initial to the founding of the British Empire.

Open to juniors and seniors who have completed two full courses in History. Six hours. MISS WILLIAMS.

305. DIPLOMATIC HISTORY OF EUROPE SINCE 1789.

A review of the period 1648–1789, followed by extensive study of diplomatic problems of the nineteenth and twentieth centuries with emphasis on World War I and its consequences.

Open to juniors and seniors who have completed two full courses in History. Six hours. MR. LANTZEFF.

306. BRITISH HISTORY SINCE 1815. (Not offered in 1944–45.)

Postwar problems and conditions in England in 1815. The significant developments in the political, social, and intellectual history of Great Britain and the British Empire, and England's part in world affairs, until the present.

Open to juniors and seniors who have completed twelve hours in History and Economics 209. Six hours. MISS WILLIAMS.

307. American Foreign Relations.

The most significant diplomatic problems which have arisen as the result of war, westward expansion, the growth of foreign commerce, immigration, and the acquisition of colonial possessions. The origin of important treaties, the development of the Monroe Doctrine, and the evolution of the United States into a world power.

Open to juniors and seniors who have completed twelve hours in History or nine hours in History and Economics 314, or who have taken or are taking Political Science 208 or 301. Six hours. MR. CURTIS.

308. Imperialism in World Politics.

European expansion in Asia, Africa, and the Islands of the Pacific in the nineteenth and twentieth centuries; colonial and imperial systems and problems; international politics as related to the control of raw materials, international finance, and imperial communications.

Open to juniors and seniors who have completed twelve hours in History or nine hours in History and Economics 314. Six hours. MISS WILLIAMS.

309. Mediaeval Culture from St. Augustine to Dante.

A study of society, thought, and learning in the early middle ages, the influence of Byzantine and Moslem civilizations in the West, the mediaeval renaissance, and the synthesis of the thirteenth century.

Open to juniors, seniors, and graduates who have had a course of grade I or II, or are taking a course of grade III, in mediaeval history, art, or literature (for example, History 101, Latin 106, Art 214, French 201, 321, Italian 301, Biblical History 302, English Literature 220, 326.) Six hours. MISS WILSON.

311. Social and Cultural History of Europe. (Not offered in 1944–45.)

The development of culture from early times through the rise of the Mediterranean civilizations, the Middle Ages, the Renaissance, and modern times, covering the more important phases of social, economic, and intellectual life.

Open to juniors and seniors who have completed two full courses in History. Six hours. MISS WILLIAMS.

315 (1). Seminar. Selected Studies in History. (Not given in 1944–45.)

Subject for 1944–45: the writing of history from Herodotus to Marx. The changing conceptions of history and historians in relation to (1) the intellectual background from which they came, and (2) their influence upon contemporary historical writing.

Open to graduate students and approved seniors who are majoring in the department. Three hours. THE TEACHING STAFF.

350. Research or Individual Study.

By consultation with the department, students may arrange for from two to six hours of individual work.

Open, by permission, to juniors and seniors who have completed or are taking a course of grade III in History. Two to six hours. The amount of work contemplated must be indicated at the time at which electives are due.

DIRECTIONS FOR ELECTION

Students electing history may choose either of the introductory courses 101 or 102, but both of these courses may not be counted in a major. The only other restrictions are those required by the prerequisites stated for each course. Students desiring to take the general examination in history are advised, however, to seek the advice of the chairman and other members of the department in order to insure a proper correlation of courses.

The courses are designed to help the student to acquire methods of historical work, and to furnish a basis for the more detailed study of particular periods.

Courses in political science may be included with a major in history with the permission of the department.

Students proposing to teach history are advised to take at least four courses in the department.

By permission of the department, six hours of closely correlated work in geography will be accepted as part of a twenty-four-hour major in history.

The attention of students who are interested in the teaching of history is called to Education 308, THE TEACHING OF SOCIAL STUDIES IN THE SECONDARY SCHOOL.

GENERAL EXAMINATION

The purpose of the general examination in history is to test:

(1) General knowledge of the subject matter of the courses composing the major.

(2) Ability to analyze, correlate, and compare the subject matter of these courses.

(3) Power to judge and appraise movements and personalities.

The general examination will not assume a knowledge of fact outside the subject matter of the separate courses.

HYGIENE AND PHYSICAL EDUCATION

Professor: RUTH ELLIOTT, PH.D. (Chairman)
Associate Professor: ELIZABETH BEALL, PH.D.
Assistant Professors: CHARLOTTE GENEVIEVE MACEWAN, M.S.
MARION ISABEL COOK, M.A.
ELINOR MARIE SCHROEDER, PH.D.
KATHARINE FULLER WELLS, M.S.
LOUISE PALMER WILSON, PH.D.,
ASSISTANT PROFESSOR OF ZOÖLOGY
ADA ROBERTA HALL, PH.D.,
ASSISTANT PROFESSOR OF PHYSIOLOGY
Instructors: NATALIE SMITH, M.S.
MARY ELISE PILLIARD, B.A.
VIRGINIA LEE HORNE, M.S.
EVELYN KATHRYN DILLON, M.A.
Assistant: EVELYN LOUISE BOLDRICK, B.S.
Recorder: MARION DOROTHY JAQUES, B.A.
Secretary: MABELLE S. POLLOCK, B.A.
Musician for the Dance: KATHRYN R. HODGSON.

Lecturers: MARY FISHER DEKRUIF, M.D.
CAROL SCOTT SCOTT, M.A.
Special Lecturers: ANDREW ROY MACAUSLAND, M.D., ORTHOPEDICS.
LORETTA JOY CUMMINS, M.D., HYGIENE OF THE SKIN.
CLIFFORD L. DERICK, M.D., INTERNAL MEDICINE.
CURTIS M. HILLIARD, B.A., PUBLIC HEALTH.
LEIGHTON JOHNSON, M.D., HYGIENE OF NOSE AND THROAT.
SAMUEL R. MEAKER, M.D., HYGIENE OF MENSTRUATION.

I. UNDERGRADUATE COURSES*

The Department of Hygiene and Physical Education, through its program adapted to individual needs and abilities, aims to help each student to build up sufficient strength and vitality to meet the demands of a normally active life; to appreciate and practice fundamental health habits; to develop a normal carriage, a sense of rhythm, coördination and motor judgment; to be a coöperative and contributing participant in group activity; and to acquire skill and a lasting interest in wholesome forms of recreation.

Four hours in Hygiene and Physical Education are prescribed for the degree. Two hours are met by 120, Personal Hygiene; the other two hours are met by two periods per week of physical education activities during freshman and sophomore years. The activity program of each year is divided into three seasons.

Sports Requirement: During the two years, the department requires that students take one season of a team sport and two seasons of an individual sport (not necessarily the same sport). If a student can demonstrate a fair degree of skill in an individual sport, or if she has a Junior or Senior Life Saving Certificate, she may substitute other activities for individual sports.

* See Section II, page 105, for opportunities for juniors and seniors to enroll in professional courses and for information relative to the five-year course in Hygiene and Physical Education.

A student's choice of activity is subject to the approval of the department, on the basis of the results of the medical and physical examinations, the physical fitness test, and the student's previous experience.

Posture Requirement: Every student is expected to attain a grade of at least C minus on her posture photograph. Failure to meet this standard at the end of the second year of indoor work will necessitate enrollment in course 125 until the standard is attained or until the end of the winter season of the senior year. The 122 winter grade will be withheld until this requirement is fulfilled.

120. PERSONAL AND COMMUNITY HEALTH.

Essential health knowledge, principles of healthful living, and the causes and prevention of disease in the home and community. Personal conferences are arranged for students with health problems.

Required of all freshmen and advanced-standing students who are not exempt by examination at entrance or who do not present a comparable college course. Two hours. DR. DEKRUIF, MISS COOK, MISS PILLIARD, MISS SMITH.

121. ACTIVITIES FOR FRESHMEN.

Choice of the following:

Fall: Archery, canoeing, diving, golf, hockey, modern dance, riding†, rowing, tennis, volley ball.

Winter: Fundamentals of movement and conditioning (gymnastics, modern dance techniques, swimming).

Spring: Badminton, basket ball, body mechanics, gymnastics and apparatus, modern dance, riding†, square and round dancing, squash, swimming.

Required of freshmen, two periods a week, counting one hour. THE STAFF.

122. ACTIVITIES FOR SOPHOMORES.

Choice of the following:

Fall: Activities listed under 121.

Winter and spring: Badminton, basket ball, body mechanics (spring only), gymnastics and apparatus, modern dance, riding†, square and round dancing, squash, swimming, water safety.

Required of sophomores who have completed 121. Two periods a week, counting one hour. THE STAFF.

124. INDIVIDUAL CORRECTIVE EXERCISE FOR FRESHMEN.

Required of freshmen whose orthopedic condition indicates the need of individually planned exercise. Two hours a week in the winter, with 121 fall and spring, counting one hour. MISS WELLS, MISS PILLIARD, AND ASSISTANTS.

125. INDIVIDUAL CORRECTIVE EXERCISE FOR SOPHOMORES.

Required of sophomores whose orthopedic condition indicates the need of individually planned exercise. Two hours a week in the winter, with 122 fall and spring, counting one hour. MISS WELLS AND ASSISTANTS.

† Special fee.

126. VOLUNTARY ACTIVITIES FOR ALL STUDENTS.

Students may elect with the permission of the department any of the activities listed under 121 or 122.

Open to all students and faculty. Two hours a week in the fall, winter, or spring terms. Not to count toward the degree. THE STAFF.

131. MODIFIED RECREATIONAL ACTIVITIES FOR FRESHMEN.

Fall: Choice of archery, canoeing, golf, riding†, tennis, volley ball.
Winter: Fundamentals of movement and conditioning.
Spring: Recreational activities.

Required of freshmen whose physical condition indicates the need of modified activities. Two hours a week, counting one hour. MISS PILLIARD AND STAFF.

132. MODIFIED RECREATIONAL ACTIVITIES FOR SOPHOMORES.

Fall: Choice of archery, canoeing, golf, riding †, tennis, volley ball.
Winter and spring: Recreational activities.

Required of sophomores whose physical condition indicates the need of modified activities. Two hours a week, counting one hour. MISS PILLIARD AND STAFF.

II. PROFESSIONAL TRAINING IN HYGIENE AND PHYSICAL EDUCATION FOR UNDERGRADUATE AND GRADUATE STUDENTS

Professional courses in Hygiene and Physical Education are offered to both undergraduate and graduate students. The courses are designed (1) to fit students to become specialists in the field of physical education and health work; (2) to provide basic training for those who wish to combine with other teaching work as assistant in physical education, or camp and recreational work.

UNDERGRADUATE ELECTIVES

Though there is no major in Hygiene and Physical Education, 207, 208, and 303, counting toward the B.A. degree, may be elected with the consent of the instructor of the course and the student's class dean. Successful work in selected theory and activity courses should enable such students to assist in physical education or recreation under the guidance of trained specialists.

SUGGESTIONS FOR UNDERGRADUATES WHO ARE CANDIDATES FOR THE B.A. DEGREE, AND FOR THE CERTIFICATE AND M.S. DEGREE IN HYGIENE AND PHYSICAL EDUCATION

The work for the B.A. degree may be completed in four years. An additional year beyond the Bachelor's degree is necessary to complete the requirements for the Certificate and M.S. degree.

A student may enter this five-year course at the beginning of her freshman, sophomore, or junior year. The College Recorder will furnish the student with a form to be presented to the chairman of the

† Special fee.

department, since permission to register for the five-year course must be obtained from the chairman by each applicant. By the end of the sophomore year a student should have completed Hygiene and Physical Education 120, 121, 122, Biblical History 104, Chemistry 101, Psychology 101, the prescribed courses in English Composition and Speech, and six additional hours from one or more of the following fields: Bacteriology, Biology, Hygiene, Physics, Sociology, and Psychology.

The following electives are suggested: courses in French or German, Economics, Education, Sociology, Psychology, Bacteriology, Zoölogy, Physics, Hygiene 201, 213 (*b*), 216. Students wishing to meet the requirement for state teachers' certificates should consult the Education department. A full major in Zoölogy is an advantage.

It is desirable for candidates to have completed at least an elementary course (high school, camp, or 121, 122, 126 at Wellesley College) in as many as possible of the following physical education activities: Archery, Badminton, Basket Ball, Canoeing, Fencing, Golf, Hockey, Lacrosse, Riding, Rowing, Soccer, Soft Ball, Speedball, Swimming and Life Saving, Tennis, Volley Ball; Folk, Modern, Social and Tap Dance; Fundamental Gymnastics (Danish) and Apparatus.

SCHEDULE OF PROFESSIONAL COURSES IN THE FIVE-YEAR PROGRAM

Junior Year: 126, 200 c, 204, 210, Education 200, Zoölogy 301, 313. Hygiene 207 and Zoölogy 302 may be taken in the junior or in the senior year.

Senior Year: 126, 200 a, b, d, e, f, g, 203, 208, 303, and Hygiene 207 and Zoölogy 302, if not completed in the junior year.

Fifth Year: 200 h, 213 a, 214, 304, 306, 309, 321, 322; and for candidates for the M.S. degree in Hygiene and Physical Education one of the following six-hour courses: 323, 350, an approved graduate course in an allied department, or a thesis.

Students are referred to the Bulletin of the Graduate Department of Hygiene and Physical Education.

GRADUATE WORK

(For a full description, see the Bulletin of the Graduate Department of Hygiene and Physical Education)

Graduates of colleges of satisfactory standing are admitted to the graduate work of the department. For the full professional course leading to the teaching certificate and to the master's degree, two years are required. Students, however, who as undergraduates have completed a major in Hygiene and Physical Education may fulfill the requirements for the master's degree in one year.

CERTIFICATE IN HYGIENE AND PHYSICAL EDUCATION

Candidates should present for admission one year of Chemistry (Chemistry completed in secondary school may be accepted), one

semester of Psychology or Educational Psychology, one semester of Principles of Education, and six additional hours from one or more of the following fields: Bacteriology, Biology, Hygiene, Physics, Sociology, and Psychology. Whenever possible the equivalent of Mammalian Anatomy (Zoölogy 301 and 313) and Physiology (Zoölogy 302) should be presented for admission. The following electives are suggested: courses in French or German, Economics, Education, Sociology, Psychology, Bacteriology, Biology, Physics, and Music. Students planning to teach in public schools should include Education courses required for state certification in their undergraduate program.

It is desirable for candidates to have completed, before admission, at least an elementary course (high school, camp, or undergraduate college courses) in as many as possible of the following physical education activities: Archery, Badminton, Basket Ball, Canoeing, Fencing, Golf, Hockey, Lacrosse, Riding, Rowing, Soccer, Soft Ball, Speedball, Swimming and Life Saving, Tennis and Volley Ball; Folk, Modern, Social, and Tap Dance; Fundamental Gymnastics (Danish) and Apparatus.

MASTER OF SCIENCE IN HYGIENE AND PHYSICAL EDUCATION

Graduate students who have qualified for advanced study and research, who have completed or are completing the requirements for the Certificate, and who have given evidence of a reading knowledge of French or German, may register for and complete in one or two years the twenty-four hours required for the M.S. degree in Hygiene and Physical Education. This requirement may be fulfilled by electives from the following: Hygiene and Physical Education 303, 318, 321, 322, 323, 350, thesis, and, with special permission, graduate courses in closely allied fields.

200. TECHNIQUE OF TEACHING SPORTS.

Advanced technique, methods of coaching and officiating:

(*a*) Basket ball—two hours a week in the winter, first semester.
(*b*) Hockey—two hours a week in the fall.
(*c*) Swimming—two hours a week, first semester.
(*d*) Badminton—one hour a week in the winter, second semester.
(*e*) Archery—one hour a week in the winter, first semester.
(*f*) Soccer—one hour a week in the spring.
(*g*) Tennis—two hours a week in the fall.

Required of first-year graduate students who have completed at least elementary courses in the activities listed. Four hours, plus one hour a week of lecture in the winter.

(*h*) Golf—two hours a week in the fall.

Required of second-year graduate students who have completed at least an elementary course in golf. Two hours a week in the fall.

MISS BEALL, MISS SCHROEDER, MISS SMITH, MISS PILLIARD, MISS HORNE, MISS BOLDRICK.

201. TECHNIQUE OF TEACHING SPORTS.

(*a*) Canoeing—one hour a week in the fall.
(*b*) Fencing—two hours a week in the winter, first semester.
(*c*) Squash—one hour a week in the fall or spring.
(*d*) Lacrosse—one hour a week in the spring.
(*e*) Life Saving and Water Safety Instructor's Course—three hours a week, first semester.

Open to graduate students.

MISS BEALL, MISS WELLS, MISS SMITH, MISS HORNE.

203 (2). TECHNIQUE OF TEACHING GYMNASTICS, APPARATUS, AND TUMBLING.

Lectures on gymnastic terminology, selection and adaptation of material, progression; methods of presentation with practice in teaching.

Required of first-year graduate students. Two hours a week in the second semester. MISS BEALL.

204. TECHNIQUE OF TEACHING RHYTHMIC ACTIVITIES.

Fundamental principles, methods, and materials, practice in teaching. Singing games, rhythmic fundamentals, creative dance; folk, tap, social, and square dance.

Required of first-year graduate students. Six hours.

MISS MACEWAN, MISS BEALL.

207. MEASUREMENT IN PHYSICAL EDUCATION.

The development and use of objective measurements and statistical methods in hygiene and physical education.

Required of first-year graduate students. This course counts four hours toward the B.A. degree. MRS. SCOTT.

208. LEADERSHIP IN PLAY AND RECREATION.

Growth and development of the child and adolescent; play in education. Selection and adaptation of play activities for different age periods. Principles and methods of teaching. Social recreation programs for school, community, and war emergency situations. Administrative organization of municipal recreation departments and other agencies.

Required of first-year graduate students. Psychology or Educational Psychology is prerequisite. This course counts four hours toward the B.A. degree.

MISS BEALL, MISS COOK.

210 (2). PHYSICAL EXAMINATION AND FIRST AID.

Purpose and technique of the physical examination, methods of recording, and the interpretation of findings. The structural growth and development of the child, with special reference to growth rates, norms, and ratios.

Standard course in First Aid, leading to the American Red Cross certificate.

Required of first-year graduate students. Three hours. MISS WELLS.

213. MODERN DANCE.

(*a*) Technique of Teaching Modern Dance.

The significance of dance in racial development and in education. The interrelationships of various forms of dance. Problems in developing techniques in dynamics, rhythmics, and design. Lectures, discussion, practice in teaching.

Required of second-year graduate students. Prerequisite: elementary and intermediate courses in modern dance or the special section of 126 for professional students (meeting two hours a week throughout the year). Two hours a week during the winter.

(*b*) Problems in Dance Composition.

Thematic material, form and design, methods of development, criteria for evaluation.

Open to second-year graduate students who have completed 213 (a) or its equivalent. Three hours a week during the spring. MISS MACEWAN.

214. SUPERVISED TEACHING.

Responsible teaching experience, under supervision, in health and physical education programs of elementary and secondary schools and in college undergraduate classes.

Required of second-year graduate students. Eight hours a week, exclusive of individual conferences. MISS COOK AND THE STAFF.

216 (2). MUSIC IN RELATION TO DANCE.

Musical notation, and structure of music in relation to movement; survey of pre-classic dance forms; technique of percussion.

Open to first-year graduate students. One hour. MRS. HODGSON.

301. MAMMALIAN ANATOMY.

(Zoölogy 301—See Department of Zoölogy and Physiology.)

313. MAMMALIAN ANATOMY.

(Zoölogy 313—See Department of Zoölogy and Physiology.)

302. PHYSIOLOGY.

(Zoölogy 302—See Department of Zoölogy and Physiology.)

303. KINESIOLOGY.

First semester: principles of body mechanics; analysis of fundamental movements in terms of joint mechanism and muscle action. Second semester: anatomical and mechanical analysis of sports, dancing, gymnastic exercises, and everyday activities, with particular emphasis on the promotion of normal physical development and the improvement of performance.

Required of first-year graduate students. Course 301 or its equivalent is prerequisite. Course 301 may be taken concurrently. Physics, while not required, is strongly recommended. This course counts six hours toward the B.A. degree, or the M.S. degree in Hygiene and Physical Education. MISS WELLS.

304. PRINCIPLES AND PHILOSOPHY OF PHYSICAL EDUCATION.

Study and discussion of the aims and objectives of physical education, including historical development, relation to the general field of education, and analysis of present-day programs and methods in terms of objectives.

Required of second-year graduate students. Four hours. MISS ELLIOTT.

306 (2). ORGANIZATION AND ADMINISTRATION.

The study of procedures upon which the teaching situation depends; i.e., selection and adaptation of activities, examination and grouping of pupils, testing the results of teaching, evaluation of the teacher and leader, provision of equipment, department organization. Illustrative problems selected from elementary, secondary schools, colleges, and recreation agencies.

Required of second-year graduate students. Two hours. MISS ELLIOTT.

309. ORTHOPEDIC AND REMEDIAL PHYSICAL EDUCATION.

The study of body mechanics, corrective exercise, and massage. Preparation for teaching corrective physical education. Supervised teaching in the Wellesley College Posture Clinic for Children. Lectures by an orthopedist and observation in orthopedic clinics.

Required of second-year graduate students. The first semester of course 303 or its equivalent is prerequisite. Six hours. MISS WELLS, DR. MACAUSLAND.

318. PROBLEMS IN HEALTH, PHYSICAL EDUCATION, AND RECREATION.

Discussion of trends and current problems in these fields.

Open in the first semester to second-year graduate students who have had the equivalent of courses 304 and 306. Open to all second-year graduate students in the second semester. By permission students may elect either semester as a semester course. This course counts six hours toward the M.S. degree in Hygiene and Physical Education. MISS ELLIOTT, MISS BEALL, MISS COOK.

321. APPLIED PHYSIOLOGY.

The application of human physiology to the problems of hygiene and physical education. The physiological aspects of exercise, fatigue, coördination, training, growth, functional tests, nutritional standards, and other topics related to the teaching of health and physical education.

Required of second-year graduate students. Hygiene 207 and Zoölogy 302, or their equivalents, are prerequisite. Course 207 may be taken concurrently with the permission of the instructor. Three hours a week of lecture and recitation for a year, and one two-hour laboratory period in the winter, counting six hours. This course counts six hours toward the M.S. degree in Hygiene and Physical Education. FIRST SEMESTER, MRS. WILSON; SECOND SEMESTER, MISS HALL.

322. HEALTH PROBLEMS OF SCHOOL AND COMMUNITY.

Social, economic, and educational influences on health. Principles and policies in conducting a health program. Health services, en-

vironmental hygiene, instruction and guidance, curriculum construction, appraisals, methods, and materials. Special problems in various areas of health.

Required of second-year graduate students. This course counts six hours toward the M.S. degree in Hygiene and Physical Education.

MISS COOK, AND SPECIAL LECTURERS.

323. SEMINAR IN HYGIENE AND PHYSICAL EDUCATION.

Brief survey of methods of research. Analysis of problems met in undertaking a special study, and in applying various techniques, by means of the individual project selected by each student. Oral and written reports; group discussion; evaluation of completed research reports.

Open to second-year graduate students. By permission students may elect either semester of this course. This course counts six hours toward the M.S. degree in Hygiene and Physical Education.

MISS SCHROEDER AND OTHER MEMBERS OF THE STAFF.

350. RESEARCH OR INDIVIDUAL STUDY.

With the permission of the department, qualified graduate students may arrange for directed individual study in Hygiene and Physical Education.

Open to second-year graduate students. Two to six hours. This course counts toward the M.S. degree in Hygiene and Physical Education.

ITALIAN

Professor: GABRIELLA BOSANO, DOTTORE IN FILOLOGIA MODERNA (Chairman).

Associate Professor: ANGELINE LA PIANA, DOTTORE IN LETTERE.

The language of the classroom is Italian except for occasional necessary explanations of grammar and idiom.

A limited number of qualified students are permitted, when practicable. to spend the junior year in Italy with the foreign study group of Smith College,

101. ELEMENTARY COURSE.

Grammar, with written and oral exercises; reading and sight translation; conversation. A general view of Italian civilization is given through reading and conversation.

Open to students who do not present Italian for admission. Six hours.

MISS BOSANO, MISS LA PIANA.

102. PRACTICAL PHONETICS.

Exercises in pronunciation based on reading aloud short passages of prose and poetry and on singing of Italian folksongs. Emphasis on rhythm and melody of the spoken language and on practical application (radio work) of scientific phonetics.

Open to students who are taking 101 and required of students majoring in Italian. Two hours. MISS BOSANO.

103. INTRODUCTION TO THE STUDY OF THE ITALIAN RENAISSANCE.

First semester: intensive study of the Italian language and of the background for a general knowledge of Italy in the Renaissance. Second semester: reading and discussion of selections from outstanding Italian authors of the period such as: Petrarca, Boccaccio, Vasari, Leonardo da Vinci, Machiavelli, Castiglione, Bandello, Tasso, and Guarino. The language used in the classroom is English.

No prerequisite. Open to seniors and, by special permission, to juniors. Six hours. MISS BOSANO.

201. HISTORY OF ITALIAN LITERATURE IN THE TWENTIETH CENTURY.

Emphasis on drama and fiction as represented by the works of D'Annunzio, Pirandello, Deledda, and others.

Prerequisite, 101 or equivalent. Six hours. MISS LA PIANA.

202. HISTORY OF ITALIAN LITERATURE IN THE NINETEENTH CENTURY.

(Not offered in 1944–45.)

A study of the literature of the nineteenth century as the expression of the political and philosophical thought of the period. Special emphasis on the works of G. Mazzini, A. Manzoni, and G. Carducci.

Prerequisite, 101 or equivalent. Six hours. MISS LA PIANA.

205. COMPOSITION.

Difficult parts of Italian grammar and syntax. Free composition with special attention to letter writing. The subject matter will deal chiefly with contemporary Italy.

Open to students who have completed 101 and are taking 201 or 207. Two hours. MISS LA PIANA.

206. CONVERSATION.

Dealing especially with the various aspects of Italian contemporary life to give to the student a larger vocabulary and correct pronunciation, ease and freedom of expression and clear phrasing. The geographical and historical background is illustrated with slides.

Open to students who have completed 101 and are taking 201 or 207. Two hours. MISS LA PIANA.

207. THE REALISTIC AND PSYCHOLOGICAL NOVEL IN THE NINETEENTH CENTURY.

An intensive study of the work of G. Verga of the school of realism, and of A. Fogazzaro and the psychological novel. Additional reading and *analisi estetica* of selected poems of G. Parini, U. Foscolo and G. Leopardi.

Prerequisite, 101 or equivalent. Six hours. MISS BOSANO.

301.* DANTE AND HIS TIME.

The outstanding characteristics of the Middle Ages and its writers. The reading of Dante's *Divina Commedia* and *Vita Nuova* in the original and in full.

Open, by permission, to juniors and seniors who have completed or are taking 201 or 207. Six hours. MISS BOSANO.

304 (2).* TRANSLATION.

Translation from English into Italian and vice versa of passages drawn from literary and scientific works. Emphasis on specific, technical vocabulary.

Open to students who have completed 101, 201, 202, or 207, and are taking 301 or 308. Two hours. MISS LA PIANA.

306 (1).* CONVERSATION.

Conversation based on reading and critical study of articles from Italian newspapers and reviews. The purpose of this course is to familiarize the students with the language used in current publications.

Open to students who have completed 101, 201 or 202, 207, and are taking 301 or 310. Two hours. MISS LA PIANA.

307.* DRAMA AND SHORT STORIES IN THE ITALIAN RENAISSANCE. (Not given in 1944–45.)

Emphasis on the plays of Poliziano, Guarini, Machiavelli, Ariosto, Tasso, Aretino, and Lasca, and on the short stories of Boccaccio and Bandello.

Open, by permission, to juniors and seniors who have completed or are taking 301. Six hours. MISS BOSANO.

308.* HISTORY AND EPICS IN THE ITALIAN RENAISSANCE. (Not offered in 1944–45.)

A detailed study of Machiavelli's and Guicciardini's works, considered as literary masterpieces, and the poems of Pulci, Boiardo, Ariosto, and Tasso.

Open, by permission, to juniors and seniors who have completed or are taking 301. Six hours. MISS BOSANO.

309.* SEMINAR. REVIVAL OF CLASSIC LEARNING IN ITALY AND ESPECIALLY IN FLORENCE DURING THE FOURTEENTH AND FIFTEENTH CENTURIES. (Not offered in 1944–45.)

Development of Italian Humanism from F. Petrarca to A. Poliziano traced so that students may estimate the achievements of a new era in Italian civilization.

Open to graduate students and, by permission, to seniors. Six hours. MISS BOSANO.

* It will be the privilege of students in grade III courses to have access to the manuscripts and early—often contemporary—editions of Italian authors contained in the Frances Pearsons Plimpton Collection.

310.* SEMINAR. MODERN ITALIAN DRAMA.

Development of the drama during the seventeenth and eighteenth centuries, from the *Commedia dell'arte* to Goldoni and Alfieri.

Open to graduate students and, by permission, to seniors. Six hours.

MISS LA PIANA.

350. RESEARCH OR INDIVIDUAL STUDY.

By consultation with the department students may arrange for individual work.

Open, by permission, to juniors and seniors who have completed or are taking a course of grade III in the department. Two to six hours.

DIRECTIONS FOR ELECTION

A major in Italian is generally based on 101. It is very desirable that students majoring in Italian should have had or be taking a college course in one of the ancient or modern languages, and should elect such courses in history and art as deal in whole or in part with Italian civilization and culture. Such courses will be required of students working for honors.

Students taking a twenty-four-hour major should include 102, 201 or 202 or 207, 301, 304, 306, 307 or 308.

Students taking a thirty-hour major should include 102, 201, 202 or 207, 301, 304, 306, 307 or 308.

NOTE:—101 may not count toward the major.

GENERAL EXAMINATION

The general examination for students taking a major in Italian will be based largely on the work done in the courses of grades II and III, and will be of such a character as to bring out the interrelation of these courses, bearing in mind that while some appear to be more closely articulated than others, they all make their contribution to the cultural development of Italian life. Some of the questions will have a direct bearing on the content of the courses, while others will be of a more general character, and will best be answered by opinions expressed and deductions drawn.

The results of the elementary work will appear in the degree of accuracy and ease of expression shown in the written portion of the examination, but especially in translating from English into Italian and vice versa.

* It will be the privilege of students in grade III courses to have access to the manuscripts and early—often contemporary—editions of Italian authors contained in the Frances Pearsons Plimpton Collection.

LATIN

Associate Professor: DOROTHY MAE ROBATHAN, PH.D. (Chairman)
Assistant Professors: MARGARET ELIZABETH TAYLOR,[3] PH.D.
CHARLOTTE ELIZABETH GOODFELLOW, PH.D.

101. THE GOLDEN AGE OF LATIN LITERATURE.

The reading will be chosen from the following topics: studies in mythology from Ovid's *Metamorphoses* or *Fasti;* legendary Rome in Livy's *History,* Bk. I; Cicero's philosophy in the *De Senectute* or *De Amicitia;* lyric verse in the shorter poems of Catullus and the *Odes* and *Epodes* of Horace.

Prerequisite, four admission units of Latin, or 103 or 106; or, by permission, three units including one of Vergil. Six hours. MISS ROBATHAN.

103. VERGIL OR CICERO. (Not given in 1944–45.)

A. *Æneid* I–VI, with selections from the later books and from other Latin poets.

B. Readings from Cicero's *Letters* and *Orations* and from other authors selected to meet the needs of the students.

Prerequisite, three admission units of Latin, or for especially recommended students, two units, or 107. Those who read poetry in the third year will elect B; those who read prose will elect A. Six hours.

MISS TAYLOR(1), MISS ROBATHAN(2).

104 (1). ROMAN LIFE AND CUSTOMS.

A study of Roman civilization through the medium of its social conditions, religious customs, education, amusements, buildings, etc. Lectures illustrated by lantern slides, photographs, coins, and other Roman antiquities. The required reading will be in English.

No prerequisite. Three hours. MISS ROBATHAN.

105 (2). LATIN LITERATURE IN ENGLISH TRANSLATIONS.

The most important poets and prose writers, with emphasis upon those authors who have especially influenced modern forms of literature. Lectures on the development of Latin literature.

No prerequisite. Not open to students who have had or are taking 101. Three hours. MISS GOODFELLOW.

106. MEDIÆVAL LATIN.

Readings from Latin writers in the fields of literature, history, and philosophy of the Middle Ages, including Cassiodorus, Gregory the Great, Bede, Geoffrey of Monmouth, John the Scot, Erasmus, Abelard, the chroniclers of the Crusades, the romancers of the *Gesta Romanorum,* religious drama, songs of the Goliards, and church hymns. Only so much attention will be given to linguistic study as the reading requires.

[3] Absent on leave for the second semester.

Prerequisite, three or more admission units of Latin, or for especially recommended students, two units, or 107. Six hours. MISS GOODFELLOW.

107. BEGINNING LATIN. (Offered on request.) (Not given in 1944–45.)

The aim of the course is to acquire in one year sufficient knowledge of grammar and syntax to enable the student to read Latin authors. Reading will include simple Latin and selections from classical writers.

Open to students who do not present Latin for admission. Six hours. MISS ROBATHAN.

202 (1). VERGIL.

Selections from the *Eclogues*, *Georgics*, and *Æneid*. Study of the poet's early work in pastoral romance, and his later development through didactic epic, the *Georgics*, to the heroic epic of the *Æneid*.

Prerequisite, 101. Three hours. MISS TAYLOR.

203 (1). COMEDY. PLAUTUS AND TERENCE.

Careful study of two plays followed by the rapid reading of others. The sources of Latin comedy, its linguistic and literary features, and its influence upon later literature.

Prerequisite, 101. Three hours. MISS GOODFELLOW.

204 (2). TACITUS AND PLINY.

The *Agricola* of Tacitus, with selections from the *Histories;* Pliny's *Letters*. Reports on special topics concerned with the literary style and social background of these authors.

Prerequisite, 101. Three hours. MISS ROBATHAN.

205 (1). CICERO. (Not offered in 1944–45.)

Selections from the philosophical works and letters.

Prerequisite, 101. Three hours. MISS TAYLOR.

206. LATIN WRITING.

Practice in turning connected English passages into Latin. Emphasis upon accuracy of expression and correct idiom.

Prerequisite, 101. Two hours. MISS TAYLOR(1), MISS ROBATHAN(2).

213 (1). THE EPIC AS A CONTINUING TYPE IN GREEK, LATIN, AND ENGLISH LITERATURE.

For description and prerequisites, see English Literature 213.

302 (1). SATIRE. HORACE AND JUVENAL.

The origin and development of satire as a literary form. Special emphasis upon the satires of Horace and Juvenal; other Roman satirists studied by topics and reports. Sight reading in Martial.

Prerequisite, a year of grade II. Three hours. MISS ROBATHAN.

303 (1). LATIN EPIGRAPHY. (Not offered in 1944–45.)
Selected inscriptions studied both for form and content as sources for the study of Roman public and private life.
Prerequisite, a year of grade II. Three hours. MISS ROBATHAN.

304 (2). TOPOGRAPHY OF ROME.
The early history of Rome, its development, the construction and furnishings of typical public and private buildings in the capital and in provincial towns. Such study of the material surroundings is connected with the literary and social development of the Roman people, and is introductory to further work in classical archæology.
Prerequisite, a year of grade II. Three hours. MISS ROBATHAN.

306 (2). STUDIES IN ROMAN RELIGION. (Not offered in 1944–45.)
The changing religious experience of the Republican period and of the early Empire; the influence of Oriental cults. Readings from the sources, especially from Livy, Cicero, and Ovid.
Prerequisite, a year of grade II. Three hours. MISS TAYLOR.

307 (2). PROSE LITERATURE OF THE LATER EMPIRE. (Not offered in 1944–45.)
The Latin novel, its origin and development: Petronius, Apuleius. The Christian apology, a study of the conflict of pagan and Christian thought: Minucius Felix, Tertullian.
Prerequisite, a year of grade II. Three hours. MISS TAYLOR.

308. LATIN WRITING. ADVANCED COURSE. (Not given in 1944–45.)
Open by permission of the instructor to students who have completed 206. Two hours. MISS ROBATHAN.

309 (2). PROSE LITERATURE OF THE EARLY EMPIRE.
History: Livy, Tacitus, Suetonius, Velleius Paterculus. Reading based on choice of topics.
Prerequisite, a year of grade II. Three hours. MISS GOODFELLOW.

310 (1). POETRY OF THE REPUBLIC.
The beginnings of Latin poetry, the earlier poets, with main emphasis upon poets of the Ciceronian Age, Catullus and Lucretius.
Prerequisite, a year of grade II. Three hours. MISS TAYLOR.

312 (2). POETRY OF THE EMPIRE.
Elegy: Tibullus, Propertius, Ovid. Selections from representative poets of the later period. The course may be given in one weekly appointment.
Prerequisite, a year of grade II. Three hours. MISS ROBATHAN.

350. RESEARCH OR INDIVIDUAL STUDY.
Open to graduate students and, by permission, to seniors. Two to six hours.

DIRECTIONS FOR ELECTION

A major in Latin is based on 101. Any other grade I course may be counted in a thirty-hour major except 107. Course 213 may not be counted toward a major in Latin. Students intending to major in Latin are advised to take at least one course in Greek, and a course in Roman history. Art 209 and 320 may be counted toward a thirty-hour major in Latin by students who are at the same time taking a course of grade III in Latin. No students are recommended as teachers of Latin who have not had at least one full course of grade III and 206.

Students interested in classical archæology are referred to the statement on page 60 in regard to a major in that field.

GENERAL EXAMINATION

Every student who presents herself for the general examination in Latin shall be required to show:

(1) Her ability to use the language by translation at sight of passages in prose and verse.

(2) A general knowledge of the history of Latin literature from its beginnings through the reign of Trajan, and of as much of the historical and social background as is necessary for understanding the literature.

(3) Familiarity with the specific fields of literature which have been covered in the courses elected by the individual student.

MATHEMATICS

Professor: LENNIE PHOEBE COPELAND, PH.D. (Chairman)
Associate Professor: MARION ELIZABETH STARK, PH.D.
Assistant Professor: HELEN GERTRUDE RUSSELL, PH.D.
Instructors: KATHARINE ELIZABETH HAZARD, PH.D.
ELLEN ELIZABETH FEDDER, M.A.

Course 106 is for students who have not had a course in trigonometry, 107 is for those who have spent a half-year in studying this subject.

Students should consult the announcements of the departments of astronomy, chemistry, economics, philosophy, and physics for courses to which mathematics is either an absolute or an alternative prerequisite.

105. INTRODUCTORY MATHEMATICS.

Topics from intermediate algebra. A brief course in trigonometry. Analytic geometry of the straight line and the conic sections. Elementary differentiation and integration.

Prerequisite, two admission units in mathematics. Not open to students who present three units in mathematics. Six hours. MISS FEDDER.

106. TRIGONOMETRY, ANALYTIC GEOMETRY, INTRODUCTION TO THE CALCULUS.

Plane trigonometry, plane analytic geometry, elementary differentiation and integration with applications.

Prerequisite, three admission units in mathematics. Six hours.

MISS STARK, MISS RUSSELL, MISS HAZARD, MISS FEDDER.

107. ANALYTIC GEOMETRY, INTRODUCTION TO THE CALCULUS.

This course is similar to 106, but a prerequisite of trigonometry makes it possible to consider additional topics and applications connected with analytic geometry and elementary calculus.

Prerequisite, four admission units in mathematics or a course in trigonometry equivalent to that outlined by the College Entrance Examination Board. As the work covered by the fourth unit is not uniform in all schools, students in this course will as far as possible be given individual instruction. Six hours.

MISS COPELAND, MISS STARK.

201. ELEMENTARY MATHEMATICAL ANALYSIS. (Not given in 1944–45.)

Selected topics from advanced algebra, analytic geometry, and the calculus.

Prerequisite, 105. Six hours. ———— ————.

202. DIFFERENTIAL AND INTEGRAL CALCULUS.

A study of the derivative and the integral including their geometric and physical interpretations.

Prerequisite, 106 or 107. Six hours.

MISS COPELAND, MISS RUSSELL, MISS FEDDER.

203 (2). HISTORY OF ELEMENTARY MATHEMATICS. (Not given in 1944–45.)

The evolution of the fundamental concepts of mathematics. Great mathematicians and their chief contributions to elementary mathematics. A brief survey of modern developments in mathematics and its literature.

Prerequisite or corequisite, 201 or 202. Three hours. MISS HAZARD.

205 (1), (2). INTRODUCTION TO MATHEMATICAL STATISTICS.

Fundamental statistical methods, with special emphasis on the use of elementary mathematics and the calculus in the development of theory and in practice. Preparation will include assigned laboratory work.

Prerequisite or corequisite, 201 or 202. Credit for this course will not be given to a student receiving credit for Economics 211. Three hours. MISS HAZARD.

206. DESCRIPTIVE GEOMETRY I.

The theory underlying architectural and engineering drawing. Problems involving the use of two or more planes of projection in representing points, lines, and planes. Revolution applied to measurement.

Prerequisite or corequisite, 201 or 202. All students must have a knowledge of the elements of solid geometry. The department will give directions for gaining readily the necessary acquaintance with this subject. One period of lecture with one laboratory period a week. Two hours. MISS STARK.

208. DESCRIPTIVE GEOMETRY II.

Artists' perspective and photogrammetry, basic to the interpretation of aerial photography. Intersection of surfaces, development, shades and shadows.

Prerequisite, 206. One period of lecture or discussion with one laboratory period a week. Two hours. MISS STARK.

302. FUNCTIONS OF A REAL VARIABLE.

Continuity and other properties of functions; convergence of series; representation of functions by power series and definite integrals. Infinite products, infinite integrals, Fourier series, and other allied subjects.

Prerequisite, 202. Six hours. MISS STARK.

303 (1).* DIFFERENTIAL EQUATIONS.

An introductory course in ordinary and partial differential equations.

Prerequisite, 201 or 202. Three hours. MISS RUSSELL.

304 (2). INTRODUCTION TO MODERN ALGEBRAIC THEORY.

Topics in algebraic theory which are of importance in the study of geometry and analysis as well as in the development of higher algebra.

Prerequisite, 201 or 202. Three hours. MISS RUSSELL.

308. FUNCTIONS OF A COMPLEX VARIABLE.

Elementary treatment of analytic functions with applications to elliptic and harmonic functions. Infinite series, transformations, and conformal mapping.

Prerequisite, 302. Six hours. MISS COPELAND.

309. PROJECTIVE GEOMETRY.

Concepts and theorems of projective geometry developed by both synthetic and analytic methods.

Prerequisite, 201 or 202. Six hours. MISS HAZARD.

350. RESEARCH OR INDIVIDUAL STUDY.

Open by permission of the department to qualified seniors. Three hours for a semester or six hours for a year.

DIRECTIONS FOR ELECTION

A major must include at least twelve hours of grade III.

The ability to read French, German, or Italian is required in all grade III courses. A reading knowledge of more than one of these languages is desirable.

Only those students who have completed satisfactorily at least six hours of grade III in the department will be recommended as teachers of mathematics.

GENERAL EXAMINATION

Modern mathematics includes fields widely diverse in nature. Work in each of these fields requires as a basis an understanding of the funda-

* Astronomy 302 or Physics 305 if preceded by Mathematics 303, may be counted toward a major in Mathematics.

mental principles and methods of trigonometry, analytic geometry, and the differential and integral calculus. On this foundation rests more advanced work in analysis, geometry, and applied mathematics. The general examination will include questions on both the fundamental and the more advanced subjects, with special emphasis on the interrelations between courses.

MUSIC

Professor: Howard Hinners, B.A. (Chairman)
Assistant Professor: Hubert Weldon Lamb, B.A.
Research Librarian: Helen Joy Sleeper, M.A., MUS.B.
Instructors: Barbara Goldsmith Trask, M.A.
Victoria Merrylees Glaser, M.A.

Lecturer: Margaret Marion Macdonald, M.A.
DIRECTOR OF CHOIR

(For list of Instructors in Practical Music, see page 124)

I. Musical Theory

The courses in theory and history are open to all students without regard to previous musical knowledge, and count toward the B.A. degree. The history and theory courses are subject to no separate tuition fee.

101. Fundamentals of Music.

Rudiments, major, minor and ecclesiastical modes, intervals, chord construction, harmonic and formal analysis of examples from the classical period. Drill in clef-reading and in the playing of cadences. Intensive work in ear-training and sight-singing.

Open to students who do not offer fundamentals for admission. This course or 102 or, by permission, 201 or 203 or 208, is required of all freshmen who elect practical music. Not to be counted toward a major. Four periods a week, one of lecture and three of dictation. Six hours. MISS TRASK.

102. Elementary Musical Analysis.

An analytical study of the elements of music and the principles of harmony as exemplified in the music of the eighteenth and early nineteenth centuries. The work differs from that of course 101 in that the emphasis is on harmonic and formal analysis rather than on ear-training. This course is designed to provide students with the technical background necessary for the study of the history of music, and is intended for those who do not propose to major in music but who wish to take more than one course in the department.

Open to students who do not offer fundamentals for admission. This course may be taken to fulfill the theory requirement for practical music. It does not serve as a prerequisite for 201 or 203. Not to be counted toward a major. Students taking this course may not also elect either 101 or 206. Six hours.
MISS TRASK.

201. HARMONY.

Major and minor triads and their inversions, elementary modulation, suspensions and other non-harmonic tones. Harmonization of simple melodies and basses, figured and unfigured. Ear-training and analysis.

Open to students offering fundamentals for admission and to those who have completed 101, or who can satisfy the instructor, by a special test in ear-training, of their ability to take the course. All candidates for the course must have an elementary knowledge of piano or organ playing sufficient to enable them to play simple hymn-tunes at sight. Six hours. MR. HINNERS.

203. ELEMENTARY COUNTERPOINT.

Strict counterpoint and canon. Composition in two and three voices in the styles of the sixteenth, seventeenth, and eighteenth centuries. Analysis.

Open to students offering fundamentals for admission and to those who have completed 101, or who can satisfy the instructor, by a special test in ear-training, of their ability to take the course. Six hours. MR. LAMB.

205. SOUND (Physics 205. See Department of Physics).

206. INTRODUCTION TO MUSICAL LITERATURE.

An historical survey course designed to develop the student's musical understanding, insight, and powers of observation through the study of music of various styles and periods. No previous knowledge of music is required.

Open only to juniors and seniors who have had no other course in the department. Three hours of lecture and one section meeting a week. Six hours.
MISS MACDONALD.

208. SURVEY OF MUSIC FROM 1750 TO THE PRESENT.

The characteristic features of various styles as represented in the works of leading composers from Haydn to Hindemith. Relationships between the musical developments and contemporary social and cultural aspects of the two centuries.

Open to students offering fundamentals for admission and to those who have completed 101 or 102. Six hours. MISS GLASER.

304. HISTORY OF MUSIC TO 1750.

First semester: a study of Gregorian chant and the rise of polyphony to its culmination in the works of Palestrina and Lassus. Second semester: the evolution of dramatic and instrumental style throughout the baroque period.

Open to juniors and seniors who have completed 201 or 203 or 208. Six hours. MR. LAMB.

309 (1). SEMINAR: THE PERIOD OF BACH AND HANDEL. (Not offered in 1944–45.)

For 1943–44 the subject was the larger choral works of Bach.

Open to juniors and seniors who have completed 201 or 203 or 208. Three hours.

310. ADVANCED HARMONY.

Dominant and secondary seventh and ninth chords, altered chords and modulation to remote keys. Harmonization of more extended melodies and basses, involving some of the elementary principles of musical composition. Ear-training and analysis.

Open to juniors and seniors who have completed 201. Six hours.

MR. HINNERS.

315. ORCHESTRATION. (Not offered in 1944–45.)

The technique and function of the instruments of the orchestra. The development of orchestral style from 1700 to the present day. Exercises in elementary orchestration.

Open to graduates and, by permission, to juniors and seniors who have completed 201, 203, and 310; and, by permission, to students who have completed 201, and 203 or 310, and are taking 310 or 203. Six hours. MR. LAMB.

317 (1). SEMINAR: HAYDN AND MOZART AND THEIR PREDECESSORS.

For 1944–45 the subject will be the classical symphony.

Open to juniors and seniors who have completed 201 or 203 or 208. Three hours. MR. LAMB.

318 (2). SEMINAR: BEETHOVEN AND HIS CONTEMPORARIES.

For 1944–45 the subject will be the chamber music of Beethoven.

Open to juniors and seniors who have completed 201 or 203 or 208. Three hours. MR. LAMB.

319 (2). SEMINAR: THE ROMANTIC STYLE FROM 1840 TO 1900. (Not offered in 1944–45.)

For 1943–44 the subject was the chamber music of Mendelssohn, Schumann, and Brahms.

Open to juniors and seniors who have completed 201 or 203 or 208. Three hours. MR. LAMB.

323. SEMINAR: THE OPERA. (Not given in 1944–45.)

The origins and evolution of dramatic music. A study of operatic traditions from 1600 to the present.

Open to juniors and seniors who have completed 201 or 203 or 208. Six hours.

MR. LAMB.

324. MUSIC SINCE 1900. (Not offered in 1944–45.)

A study of contemporary practices in music. Analysis of works by leading European and American composers.

Open to juniors and seniors who have completed 208 and 304 and, by permission, to students who have completed or are taking 304. Six hours. MR. LAMB.

350. RESEARCH OR INDIVIDUAL STUDY.

On consultation with the department, graduate students may arrange for directed study in theory, composition, or the history of music.

Three hours for a semester or six hours for a year.

II. PRACTICAL MUSIC (INSTRUMENTAL AND VOCAL LESSONS)

Instructors in Practical Music: RICHARD BURGIN (Violin)
DAVID BARNETT, B.A. (Piano)
CARL WEINRICH, B.A. (Organ)
OLGA AVERINO (Voice)
ALFRED ZIGHERA (Violoncello)
GEORGE ALFRED BROWN, B.S. (Conductor of the Orchestra and Director of Chamber Music)

Freshmen may not elect instrumental or vocal music without courses 101 or 102 or, by permission, 201 or 203 or 208. Work in Practical Music is not credited toward the B.A. degree, and there is an extra charge for such instruction.*

Instruction is provided in Voice, Piano, Organ, Violin, and Violoncello, and arrangements may be made for private instruction on other instruments. Lessons are thirty minutes in length. Instruction in Piano, however, is given both in classes and by individual lessons. In the case of elementary students, class instruction predominates. For more advanced students, the group work is supplementary and voluntary. Advanced string players and pianists are also eligible, without additional charge, for group instruction in the performance of chamber music.

Practical Music, subject to the restrictions above and under paragraph (*a*) below, is an elective, and students should notify the department of their election of the subject in the usual manner and at the proper time. It is offered to all students as stated below:

(*a*) Candidates for the B.A. degree may take Practical Music, provided that they obtain each year the permission of their Dean as well as of the chairman of the department; they must also take a full course in Musical Theory for each year's work in Practical Music until they have completed two six-hour courses in Musical Theory. After that, they may elect Practical Music without also electing a theory course.

(*b*) Graduates of Wellesley College or of other institutions may make special arrangement for instrumental or vocal lessons.

(*c*) Permission to practice in Music Hall cannot be given to students not regularly registered in the department.

(*d*) Students whose progress is not satisfactory may be required to discontinue their lessons.

* The charge for instruction for the college year in Piano, Organ, Violin, Violoncello, and Voice, on the basis of one lesson a week, is $75.00; for two lessons a week, $150.00. The charge for the use of a practice studio is at the rate of $15.00 for one period daily for the college year; for the organ in Music Hall, $20.00. The fee for vocal or instrumental music is payable in advance in two equal installments, and is not subject to return or deduction.

DIRECTIONS FOR ELECTION

For a major, the following courses are required: 201, 203, 208, 304, 310.

Course 101, which does not count toward a major, is a prerequisite to the above sequence.

Suggested correlative subjects for students majoring in Music:

European History, Literature, Art, Physics 205.

Students majoring in Music should take their examinations to test their reading knowledge of a foreign language in either German or French. German, French, Italian, and Latin are, in the order named, important for graduate work in Music.

GENERAL EXAMINATION

The general examination will be a test of the student's knowledge of (1) musical theory (harmony, counterpoint, and composition); and (2) the history of music.

Required questions will deal with courses taken by all the major students. Questions on other courses will be wholly or partly optional.

PHILOSOPHY

Professors: THOMAS HAYES PROCTER, PH.D. (Chairman)
MARY LOWELL COOLIDGE, PH.D.
Assistant Professor: VIRGINIA ONDERDONK, B.A.
Instructor: NATHANIEL MORRIS LAWRENCE, S.T.B.

103 (1), (2). BASES OF KNOWLEDGE.

A study of the principles of valid thinking together with a critical examination of the ultimate sources of knowledge. Some study of logical inference and of scientific method will be included.

Open to all students except those who have taken or are taking 108. A special freshman division is planned. Three hours. MISS COOLIDGE, MISS ONDERDONK.

104 (1), (2). THEORIES OF THE GOOD LIFE.

A study of typical ethical theories in their relation to the metaphysical assumptions implied by them.

Open to all students. A special freshman division is planned. Three hours. MR. PROCTER, MISS COOLIDGE, MISS ONDERDONK.

107. INTRODUCTION TO PHILOSOPHY THROUGH GREEK THOUGHT.

A course based on the material presented by the Greek thinkers. An introductory discussion of the various Pre-Socratic schools. Special attention to Plato's *Apology*, *Crito*, *Phaedo* and *Republic* and to Aristotle's *Ethics* and to parts of the *Metaphysics*. Texts: Nahm, *Selections from Early Greek Philosophy;* Plato, *Dialogues* (Jowett translation); Aristotle, *Natural Science*, *Psychology*, *Ethics* (Wheelwright).

Open to sophomores, juniors, and seniors, and, by permission of the Dean of Freshmen, to freshmen. Six hours. MR. PROCTER, MR. LAWRENCE.

108. LOGIC.

Training in argument and in logical criticism through the examination of fallacious reasoning compared with valid arguments. Emphasis on deductive logic, supplemented by some study of the principles of inductive logic and scientific methodology. A course designed to meet the practical needs of the student.

Open to sophomores, juniors, and seniors, and, by permission of the Dean of Freshmen, to freshmen. Two hours. MISS ONDERDONK.

203 (1). ÆSTHETICS.

A study of philosophical problems concerning the nature of beauty, of artistic creation, and of standards in criticism. Some attention will be given to the relation of æsthetic to other values. Readings in such classical philosophers as Plato and Schopenhauer, and in such contemporary writers as Croce and Santayana.

Open to sophomores who have completed a course in philosophy and to juniors and seniors without prerequisite. Three hours. MISS COOLIDGE.

204 (2). AMERICAN PHILOSOPHY.

Studies in the development of philosophy in the United States from Colonial times until the present. The work will include an examination of the philosophical assumptions of such authors as Edwards, Jefferson, Emerson, James, Dewey, etc.

Open to sophomores, juniors, and seniors who have taken or are taking a three-hour course in philosophy or a course in American history or literature. Three hours. MISS COOLIDGE.

211 (2). INTRODUCTION TO PHILOSOPHY THROUGH THE PROBLEMS OF RELIGION.

A brief historical and psychological study of the religious consciousness leading to a discussion of the nature and validity of religious experience in contrast with other types of experience and of the philosophical problems involved in this contrast.

Open to sophomores who have completed a course in philosophy, and to juniors and seniors without prerequisite. Three hours. MISS ONDERDONK.

214. STUDIES IN THE DEVELOPMENT OF MODERN PHILOSOPHY.

A study of important European philosophies from Descartes to Nietzsche designed to give students a knowledge of the chief philosophical systems and to provide some philosophical background for the understanding of related movements in literature and the natural and social sciences.

Open to sophomores who have completed a course in philosophy, and to juniors and seniors without prerequisite. Open also, by special arrangement, to graduate students. Six hours. MISS ONDERDONK, MISS COOLIDGE.

306 (1). ADVANCED LOGIC.

A study of modern developments of logic including a discussion of the nature of a deductive system, the logic of classes, the calculus of propositions, and the logic of propositional functions.

Open to juniors and seniors who have completed or are taking a grade II course in mathematics or philosophy. Three hours. MISS ONDERDONK.

307. THE HISTORY OF GREEK PHILOSOPHY.

An advanced study of Greek philosophy, offering more extended and more detailed readings in Plato (with emphasis on the later dialogues) and also in Aristotle, the Stoics, Epicureans, and Neo-Platonists. Texts of the Greek philosophers and Demos, *The Philosophy of Plato.*

Open to juniors and seniors who have completed six hours in the department and, by permission, to other seniors majoring in related departments. Open also to approved graduate students. Not open to students who have taken 107. Six hours. MR. PROCTER.

311 (1). LEIBNIZ AND KANT.

An intensive study of the philosophies of Leibniz and Kant.

Open to students who have taken or are taking 214. Three hours. MISS COOLIDGE.

321 (1). SEMINAR: STUDY OF IDEALISM, NATURALISM, AND PRAGMATISM IN RECENT PHILOSOPHY.

The writings studied will include the works of Bradley, James, Dewey, and Bergson.

Open to juniors and seniors who have completed 214 or nine hours in philosophy including a course in Greek philosophy, and to graduate students. Three hours. MISS COOLIDGE.

322 (2). SEMINAR: STUDIES IN THE PHILOSOPHIES OF THE LAST HALF CENTURY.

Papers and discussions based on representative readings from the writings of Russell, Alexander, the American Neo-realists, Santayana, and Whitehead.

Open to juniors and seniors who have completed 214 or nine hours in philosophy including a course in Greek philosophy, and to graduate students. Three hours. MR. PROCTER.

350. RESEARCH OR INDIVIDUAL STUDY.

Open to graduate students and seniors by permission. Two to six hours.

DIRECTIONS FOR ELECTION

A twenty-four- or thirty-hour major in philosophy must include 214 and either 107 or 307, and Psychology 101 or 103. As courses supplementary to a philosophy major may be suggested certain courses in psychology, mathematics, natural science, history, Biblical history,

political science and sociology, and in English, German, French, Latin and Greek literature.

Freshmen and sophomores taking a year's work in philosophy should elect either 107 or 103–104. Course 214 should be elected in the sophomore or junior year.

For students majoring in philosophy, either French, German, or Greek will be accepted in fulfillment of the language reading requirement.

General Examination

Students who plan to take the general examination in philosophy may consult the department for advice in regard to preparation.

PHYSICS

Professors: Louise Sherwood McDowell, ph.d. (Chairman)
Lucy Wilson, ph.d.
Associate Professors: Alice Hall Armstrong[w], ph.d.
Dorothy Heyworth, ph.d.
Instructors: Catherine Louise Burke, m.a.
Janet Brown Guernsey, b.a.
Assistants: Margaret Alice Carr, b.a.
Patricia Gobinet Gorman, b.a.
Laura Jean Johnston, b.a.
Lecturer: Hedwig Kohn, ph.d.

101. Elementary Physics.

A course designed to give an intelligent understanding of man's physical environment and the everyday applications of fundamental laws; to answer the questions we all ask as to why nature behaves as it does: what laws govern the motion of automobiles, for example; what makes water boil and freeze; how electrons act to give us the varied phenomena of electricity; how sound waves differ from light waves and x-rays.

Open to all undergraduates. Three periods of lecture and discussion with one three-period laboratory appointment a week. Six hours.

Miss McDowell, Miss Wilson, Miss Heyworth, Miss Burke, Mrs. Guernsey, Miss Kohn, Miss Carr, Miss Johnston, Miss Gorman.

104. Elementary Physics.

The same topics as in course 101: mechanics, heat, electricity, sound, and light, but with greater emphasis upon the mathematical development of the subject.

Prerequisite or corequisite, Mathematics 106 or 107. Three periods of lecture and discussion with one three-period laboratory appointment a week. Six hours.

Miss McDowell, Miss Heyworth, Mrs. Guernsey, Miss Kohn, Miss Burke, Miss Carr, Miss Johnston, Miss Gorman.

105 (1). Fundamental Principles of Physics.

Selected topics in mechanics; wave motion and its applications in sound and light; current electricity.

[w] Absent on war service.

Open, by permission, to students who offer Physics for admission. Three periods of lecture and discussion, with one three-period laboratory appointment a week. Three hours. MRS. GUERNSEY.

201 (1), (2). ELECTRICITY.

Direct and alternating current phenomena: the effects of inductance, capacitance, and resistance. Laboratory study of methods of measurement, instruments, and electrical machinery. Especial attention to students who wish training in the use of electrical instruments for other sciences.

Open to students who have completed 101, 104, 105, or 102 and, by permission, to sophomores, juniors, and seniors who pass an examination for exemption from 105. Additional prerequisite or corequisite, Mathematics 106 or 107. Three periods of lecture and discussion, with one three-period laboratory appointment a week. Three hours. MISS HEYWORTH (1), MRS. GUERNSEY (2).

202 (2). ATOMIC PHYSICS.

A brief introduction to the kinetic theory of gases, to theories of the nature of radiant energy, and of the constituents and structure of the atom, nuclear and extra-nuclear. Consideration in some detail of the evidence offered by the phenomena of cathode rays, photoelectricity, ionization, optical spectra, x-rays, cosmic rays, radioactivity, isotopes.

Open to students who have completed 201 and, by permission, to sophomores, juniors, and seniors who have completed 101, 104, 102, or 105. Three hours. MISS KOHN.

203 (2). METEOROLOGY.

The phenomena of the weather with explanations based upon the principles of physics. Air pressure, temperature, winds, clouds, precipitation, progress of storms, cold waves, atmospheric optics; chief concepts of air mass analysis with the application to weather forecasting; study and practice in the use of meteorological instruments.

Open to students who have completed 102 or 105 and to sophomores, juniors, and seniors who have completed or are taking 101 or 104 or who have presented one admission unit in Physics. Three periods of lecture and discussion with one three-period laboratory appointment a week. Three hours. MISS WILSON, MISS CARR.

204. THE AUTOMOBILE: PRINCIPLES AND CONSTRUCTION.

The internal combustion engine; carburetors; systems of ignition, starting and lighting, and transmission. Lectures with demonstrations to illustrate the physical principles involved. Individual laboratory study of various automobile mechanisms.

Open, by permission, to sophomores, juniors, and seniors who have completed 101, 104, 102, or 105, or who have presented one admission unit in Physics. One period of lecture or one three-period laboratory appointment a week. Two hours. MRS. GUERNSEY.

205. SOUND. (Not offered in 1944–45.)

A preliminary study of vibrations and wave motion. Physical basis of music, characteristics of musical instruments; architectural acoustics; reproduction of speech and music.

Open to students who have completed or are taking 101 or 104; to juniors, seniors, and, by permission, to sophomores who have presented one admission unit in Physics. One period of lecture and discussion or one two-period laboratory appointment a week. Two hours.

206 (2). ELECTRONICS.

High-frequency electrical currents and their production, amplification, modulation, and detection by means of multi-electrode vacuum tubes and their associated circuits.

Open by permission to sophomores, juniors, and seniors who have completed 101, 104, 105, or 102. Three periods of lecture and discussion, with one three-period laboratory appointment a week. Three hours. MISS MCDOWELL, MISS BURKE.

209. LABORATORY TECHNIQUE.

Practice arranged to fit the needs of the individual student. Photography, shop work, including the lathe, practice in designing and assembling simple apparatus. A student who at the same time elects 350 may construct apparatus needed for her special problem as part of the work of 209.

Open to juniors and seniors whose major field is Physics. One three-period laboratory appointment a week. Two hours. THE STAFF.

210. PHOTOGRAPHY.

Theory and procedure in developing and printing, lenses, filters, history and present trends in photography. The aim is to give freedom in the use of materials, power of critical analysis of the finished product, and to lay a foundation for later independent study.

Open, by permission, to sophomores, juniors, and seniors who have completed or are taking 101, 102, 104, or 105 or who have presented one admission unit in Physics. One three-period laboratory appointment a week. Two hours.

MISS BURKE.

301 (1).* LIGHT.

The wave theory and its application to the phenomena of interference, diffraction, double refraction, polarization, and dispersion; theory and use of optical instruments; brief discussion of the application of the quantum theory to spectroscopy.

Open to juniors and seniors who have completed a course of grade II in Physics, or a year course of grade I in Physics and a year course of grade I in Astronomy. Three periods of lecture and discussion with one three-period laboratory appointment a week. Three hours. MISS KOHN.

* Astronomy 301, to which Physics 301 is prerequisite, may be counted toward a major in Physics.

302 (1). THE FUNDAMENTALS OF RADIO COMMUNICATION.

Circuit elements; resonant circuits; theory of multi-electrode vacuum tubes and their application to amplifiers, oscillators, modulators, and demodulators.

Open to juniors and seniors who have completed Physics 201 and Mathematics 202. Three periods of lecture and discussion, with one three-period laboratory appointment a week. Three hours. MISS MCDOWELL, MISS BURKE.

303 (2). ADVANCED RADIO AND ELECTRONICS.

A continuation of 302. Transmitters, receivers, and sound equipment; radiation and propagation of waves; transmission lines and antennas; vacuum-tube instruments; ultra-high-frequency generators. In the laboratory each student will be given the opportunity to choose a problem involving the design and construction of some electronic device and will have practice in the use of testing equipment such as oscilloscope and chanalyst.

Prerequisite, 302. Three periods of lecture and discussion with one three-period laboratory appointment a week. Three hours.

MISS MCDOWELL, MISS BURKE.

304 (1).*† THEORETICAL ELECTRICITY AND MAGNETISM. (Not offered in 1944–45.)

A preliminary study of the principles of simple vector analysis. The topics discussed will be chosen from the following: magnetic fields and potentials, magnetic effects of currents, Kirchoff's laws of electricity, electrostatics, thermoelectricity, electromagnetics, magnetic properties of materials, varying currents, alternating currents, units, electromagnetic radiation. Emphasis upon the application of mathematics, especially calculus and vector analysis, to the solution of problems.

Open to juniors and seniors who have completed Physics 201 and Mathematics 202. Three hours.

305 (2).* MECHANICS.

Equations of motion; simple harmonic motion; statics of rigid bodies; work, energy; dynamics of a particle; motion of rigid bodies, the mechanics of airplane flight. Emphasis on the application of mathematics, especially plane analytic geometry and the calculus, to physics; use will be made of differential equations.

Prerequisite, Physics 101, 104, 102, or 105 and Mathematics 202. When combined with Mathematics 303 it may be counted toward a major in Mathematics. Three hours. MISS HEYWORTH.

* Mathematics 303, if followed by Physics 304 or 305, may be counted toward a major in Physics.

† Courses 304 and 306 will ordinarily be offered in alternate years.

306 (1).† HEAT AND THERMODYNAMICS. (Not offered in 1944–45.)

Introduction to mathematical theory of heat conduction, kinetic theory of gases, and the laws of thermodynamics.

Open to juniors and seniors who have completed 202 or 203 and Mathematics 202. Three hours.

309 (2). EXPERIMENTAL ATOMIC PHYSICS.

Individual experiments such as the measurement of the charge on the electron, the ratio of charge to mass of the electron, Planck's constant, ionization potentials; problems in optical and x-ray spectroscopy; experiments involving use of cloud chamber and Geiger counters.

Open to juniors and seniors who have completed 202. Six periods of laboratory a week. Three hours. MISS KOHN.

350. RESEARCH OR INDIVIDUAL STUDY.

The work will be under the direction of the member of the department in whose field the work lies. Opportunity will be offered for a series of experiments as well as for investigation of a single problem.

Open to graduate students and, by permission, to juniors and seniors who have completed eighteen hours in the department. To count two to three hours for a semester or four to six hours for a year. By permission the work may be arranged to count one hour for the first semester in case two or three hours are elected for the second semester. The amount of work contemplated must be indicated at the time of handing in electives.

DIRECTIONS FOR ELECTION

A major in Physics should ordinarily include 101 or 104 or 102 or 105, 201, 202, 301 and at least two of the following: 302, 304, 305, 309. It may not include 204, 209 or 210.

A knowledge of calculus is required and a year of chemistry is advisable for students majoring in Physics. A reading knowledge of German and French, while not required, is desirable.

Pre-medical students are referred to the requirements as given on page 36.

GENERAL EXAMINATION

The general examination may be based on any combination of courses which includes the courses mentioned under Directions for Election. The questions will be designed: (1) to show the essential unity in the different branches of physics; (2) to test the knowledge of fundamental principles and the ability to apply these principles to concrete problems.

† Courses 304 and 306 will ordinarily be offered in alternate years.

POLITICAL SCIENCE

Professor: LOUISE OVERACKER, PH.D. (Chairman)
Associate Professor: M. MARGARET BALL, PH.D.
Instructors: GLADYS MARIE KAMMERER, M.A.
FIORA MARIOTTI HOUGHTELING, B.A.
HELEN VIVIAN HAMMARBERG, PH.D.

Lecturer: HERMAN FINER,[5] D.SC.

Political Science 104, no longer offered by the department, may serve as prerequisite when so noted. Courses 100 and 200 may not be elected by students who have completed 104.

100. INTRODUCTION TO POLITICAL SCIENCE.

Fundamental principles of democracy developed through a study of the governments of the United States, Great Britain, the French Third Republic, Sweden, and other selected democracies. Some attention will be given to postwar plans.

Open to freshmen, sophomores, and juniors who have not taken 104. Six hours. MISS OVERACKER, MISS BALL, MISS KAMMERER, MRS. HOUGHTELING.

200. COMPARATIVE GOVERNMENT.

A study of the ideas and institutions of Soviet Russia, Germany, Italy, the Far East, and selected Latin American republics, with some comparison to the United States and Great Britain.

Open to sophomores, juniors, and seniors who have had or are taking 100, or, by permission, to those who have had a secondary school course in American history or government. May not be taken for credit by students who have completed 104. Six hours. MISS HAMMARBERG.

201 (1), (2). PUBLIC ADMINISTRATION.

A study of public administrative organization and procedure in the United States today. Special attention to general principles of organization and administration; areas for administration and their interrelationship; the rôle of staff and auxiliary services in overhead management (a survey of the problems in administrative planning, fiscal management, personnel, and public relations); "responsible bureaucracy."

Open to students who have completed 100 or 104 and to seniors who are taking 200 or 205. Three hours. MISS KAMMERER.

202 (2). POLITICAL PARTIES AND PRESSURE POLITICS.

The nature and functions of parties; factors controlling party affiliations; organization, including nominating methods and the spoils system; the use of money in elections; campaign technique; the rôle of pressure groups in the political process. Emphasis upon present-day trends in the United States, with some consideration of parties in other democracies.

Open to students who have completed 104 and to seniors who are taking 200 or 205. Three hours. MISS OVERACKER.

[5] Appointed for the second semester only.

204 (1). LEGISLATIVE PROBLEMS.

Critical analysis of systems of representation, including proportional representation; organization of legislative bodies; principles, procedures and practices of statute law-making; the problem of leadership; legislative control of administration; the rôle of pressure groups. Comparison of legislative bodies in the United States with legislatures in other democracies.

Open to students who have completed 104 or 100. Three hours.

MISS OVERACKER.

205. CONTEMPORARY POLITICAL INSTITUTIONS.

A study of the governments of the United States, Great Britain, Germany, and Soviet Russia with special emphasis upon the theory and functioning of democracy and dictatorship. Some attention will be given to postwar plans. A condensed treatment of much of the material covered in 100 and 200.

Open only to seniors who have not taken 104, 100, or 200. Six hours.

MISS HAMMARBERG.

208. INTERNATIONAL POLITICS.

A study of contemporary world politics with special attention to the League of Nations, the functioning of the Inter-American system, problems of postwar reconstruction and proposals for collective security and a new world order.

Open to students who have completed 100, 104, 200, or a course in History, Economics, Sociology, or Geography. Six hours. MISS BALL.

301 (1). INTERNATIONAL LAW.

The nature and scope of the rules governing the conduct of states in their relations with one another. Recognition; state succession; jurisdiction over persons, territory, and vessels; the status and immunities of diplomats; the law of treaties; international claims; pacific settlement of disputes; the rights and duties of belligerents and neutrals in time of war.

Open to juniors and seniors who have completed 104 and a grade II course in Political Science, Economics, History, or Sociology; or 208. Three hours.

MISS HAMMARBERG.

303 (1). LAW AND THE ADMINISTRATION OF JUSTICE. (Not offered in 1944–45.)

The nature, sources, and sanction of law; development of common law principles and institutions; organization of English and American courts; civil and criminal procedure in the United States; the growth of administrative justice.

Open to juniors and seniors who have completed 104 and a grade II course in Political Science, Economics, History, or Sociology. Three hours.

304 (1). THE SUPREME COURT AND THE CONSTITUTION.

The Constitution as interpreted by the Supreme Court. The amending process, the scope of the President's powers, interstate commerce, "due process of law," the "police power," the rôle of the Supreme Court in the American constitutional system.

Open to juniors and seniors who have completed 104 and a grade II course in Political Science, Economics, History, or Sociology. Three hours.

MISS OVERACKER.

305 (1). ADMINISTRATIVE REGULATION AND ADJUDICATION.

A study of the regulatory process; procedures in administrative adjudication, with selected cases in administrative law; the development, present organization, and authority of the regulatory commissions and agencies and their place in administrative organization. Special attention will be focussed upon first-hand study of a few selected Massachusetts agencies and national agencies with regional offices in the Boston area such as the War Labor Board, the National Labor Relations Board, Securities and Exchange Commission, Social Security Board, and Office of Price Administration.

Open to juniors and seniors who have completed 100 or 104 and a grade II course in Political Science, Economics, History, or Sociology. Three hours.

MISS KAMMERER.

310 (2). PUBLIC PERSONNEL MANAGEMENT.

Recruitment, promotion, discipline, and training of civil service employees; position classification; pension systems, employee organizations, and the right to strike; limitations upon political activities of public employees; the importance of an expert career service in a democracy.

Open to juniors and seniors who have completed 201. Three hours.

MISS KAMMERER.

316 (1). HISTORY OF SOCIAL AND POLITICAL THOUGHT.

For description and prerequisites, see Sociology 316 (1).

318 (2). MODERN POLITICAL THEORY.

The leading political theories of the nineteenth and twentieth centuries; a study of the nature and functions of the state, with special reference to individualism and collectivism, democracy, socialism, communism and anarchism, fascism and national socialism. Through a systematic presentation of recent political theories, the student is given a foundation for future political judgments.

Open to students who have completed 104 and a grade II course in History or Political Science, or Sociology 316. Three hours. MISS HAMMARBERG.

322 (2). SEMINAR. SELECTED PROBLEMS: NATIONAL.

Intensive study of one problem or a series of related problems. Emphasis upon methods of research and use of source material; oral reports at frequent intervals; a final paper.

Open to a limited number of juniors, seniors, and graduate students specializing in Political Science, Economics, or History, who have completed two full courses in Political Science. Three hours. MR. FINER.

324 (1). SEMINAR. SELECTED PROBLEMS: INTERNATIONAL.

Intensive study of one problem or a series of related problems. Emphasis upon methods of research and use of source material; oral reports at frequent intervals; a final paper.

Open to a limited number of juniors, seniors, and graduate students specializing in Political Science, Economics, or History, who have completed two full courses in Political Science. Three hours. MISS BALL.

350 (1), (2). RESEARCH OR INDIVIDUAL STUDY.

The department is prepared to offer a course of directed reading to a limited number of students.

Open, by permission, to seniors who have completed or are taking a course of grade III in Political Science. Three hours.

DIRECTIONS FOR ELECTION

The courses in Political Science are arranged to meet the needs of the following groups of students: those intending to do graduate work in political science or law; those planning to qualify for certain civil service examinations and other types of public service; those wishing to supplement their work in other fields with a knowledge of political science; students who wish to be prepared to take an intelligent part in the political activities of their communities after college.

By special permission, certain closely related courses in Economics, History, Geography, or Sociology may be included as part of the major in Political Science. The department will be glad to suggest combinations of courses to meet particular needs and interests.

The attention of students who are interested in the teaching of political science is called to Education 308, The Teaching of Social Studies in the Secondary School.

GENERAL EXAMINATION

The purpose of the general examination is to test the student's power of critical evaluation and her ability to correlate and to apply to new problems the principles and factual material developed in the courses which have constituted her major in the department.

PSYCHOLOGY

Professors: EDNA HEIDBREDER, PH.D. (Chairman)
MICHAEL JACOB ZIGLER, PH.D.
Associate Professor: EDITH BRANDT MALLORY, PH.D.
Instructor: BABETTE FRANCES SAMELSON, M.A.
Assistants: MARY LOUISE BENSLEY, B.A.
MARGARET LOUISE IVY, B.A.
ELLEN COHEN, B.A.

101 (1), (2). BRIEF INTRODUCTORY COURSE IN PSYCHOLOGY.

A survey of the general field of psychology. Discussion of investigations in intelligence, learning, memory, perception, sensory processes, emotion, imagination, motivation, personality, and related topics.

Open to sophomores, juniors, and seniors and, by permission of the Dean of Freshmen, to freshmen. Not open to students who have completed 103. Three hours. MR. ZIGLER, MRS. MALLORY, MISS SAMELSON.

103. INTRODUCTORY COURSE IN PSYCHOLOGY.

A survey of the general field of psychology, more complete than that given in 101. Emphasis on the more complex psychological processes.

Open to sophomores, juniors, and seniors who have not taken 101, and, by permission of the Dean of Freshmen, to freshmen. Six hours.

MISS HEIDBREDER.

201 (1). PSYCHOLOGICAL STATISTICS. (Not given in 1944–45.)

Training in the use of statistical techniques as they have been especially adapted to the handling and evaluating of representative types of psychological data. Emphasis on developing in the student an understanding of the possibilities and limitations of the use of statistics in psychology.

Prerequisite, 101 or 103. Three hours. MISS SAMELSON.

207 (2). PSYCHOLOGY OF CHILD DEVELOPMENT.

Characteristic changes in conscious attitude and in behavior tendencies which take place in normal individual development. Attention both to instinctive or unlearned traits and to the differentiating effects of environment and training.

Open to seniors, juniors, and, by permission, to sophomores, who have completed 101 or 103. Three hours. MRS. MALLORY.

209 (1), (2). EXPERIMENTAL PSYCHOLOGY, LABORATORY COURSE.

Typical experiments in each of the main fields of psychological investigation. Laboratory work supplemented by occasional lectures. Training in psychological method.

Prerequisite, 101 or 103. Six periods a week of laboratory work, counting three hours. MR. ZIGLER, MRS. MALLORY.

210 (2). PROBLEMS IN EXPERIMENTAL METHOD.

A survey of the methods employed in the experimental investigation of psychological problems. Examination of underlying principles of psychological method. Training for subsequent research and for the critical evaluation of psychological literature.

Prerequisite, 209. Three hours. MRS. MALLORY.

213 (2). PHYSIOLOGICAL PSYCHOLOGY.

The physiological mechanisms involved in sensation, perception, action, memory, and emotion.

Prerequisite, 101 or 103. Three hours. MR. ZIGLER.

219 (2). THE PSYCHOLOGY OF LEARNING. (Not offered in 1944–45.)

An examination and evaluation of current theories of learning, with special attention to those centering about the concepts of the conditioned reaction, trial and error, and insight. Emphasis on recent studies of the psychology of learning. Laboratory experiments on human and animal subjects.

Prerequisite, 101 or 103. Three hours. MISS SAMELSON.

220 (1). COMPARATIVE PSYCHOLOGY.

A survey of the field of comparative psychology emphasizing changes in capacity for adaptation from lower to higher animal forms. Lectures supplemented by laboratory work in which rats are used as subjects.

Prerequisite, 101 or 103. One or two lectures a week, supplemented by laboratory work. Three hours. MISS SAMELSON.

301 (1). HISTORY OF EXPERIMENTAL PSYCHOLOGY.

The historical development of the principal movements in experimental psychology, with special reference to the changes in method and technique which have attended these movements.

Open to juniors and seniors who have completed or are taking two grade II courses in psychology. Three hours. MR. ZIGLER.

303 (1). EXPERIMENTAL PROBLEMS IN PSYCHOLOGY.

An experimental-project course in which each student investigates a special problem under the direction of an instructor.

Open to graduate students and to juniors and seniors who have shown in 209 an aptitude for laboratory work. Six periods of laboratory a week, including one or two with instructor. Three hours.

MISS HEIDBREDER, MR. ZIGLER, MRS. MALLORY.

308 (2). EXPERIMENTAL PROBLEMS IN PSYCHOLOGY.

An experimental-project course which may be taken either as a continuation of 303 or as a substitute for it.

Open to graduate students and to juniors and seniors who have shown in 209

an aptitude for laboratory work. Six periods of laboratory a week, including one or two with instructor. Three hours.

MISS HEIDBREDER, MR. ZIGLER, MRS. MALLORY.

309 (1). ABNORMAL PSYCHOLOGY.

The facts of abnormal psychology, presented in such a way as to throw light on the psychology of normal people. A study of symptoms of abnormality and their significance, various neuroses and psychoses, and the principal theories and interpretations of abnormal behavior.

Open to juniors and seniors who have completed 101 or 103 and have completed, or are taking, at least six hours of work above grade I in one of the following: psychology, sociology, zoölogy and physiology. Also open to seniors by permission of the instructor. Three hours. MISS HEIDBREDER.

310 (2). SOCIAL PSYCHOLOGY.

Current problems in social psychology: socialization of the individual; communication; acquisition of attitudes; measurement of attitudes; race prejudice; effect of group structure on individuals; leadership.

Open to juniors and seniors who have completed 101 or 103 and have completed, or are taking, at least six hours of work above grade I in psychology or sociology. Also open to seniors by permission of the instructor. Three hours.

MISS SAMELSON.

313 (1). DIFFERENTIAL PSYCHOLOGY.

Individual differences in intelligence, personality, and special abilities. Review of methods by which psychologists have studied these differences; survey and evaluation of their findings.

Open to juniors and seniors who have completed 209. Three hours.

MRS. MALLORY.

314 (2). PSYCHOLOGICAL TESTS AND MEASUREMENT.

Principles of psychological measurement. Examination of selected tests. Theory and techniques of test construction. Practice in giving and scoring tests. Interpretation of test results.

Open to students who have completed 313. Three hours. MRS. MALLORY.

324 (2). SEMINAR. PSYCHOLOGICAL THEORY.

Studies of representative contributions to psychological theory.

Open to graduate students, to seniors who are taking twenty-four hours in psychology, and, by permission, to seniors who are taking eighteen hours. Three hours. MISS HEIDBREDER.

326 (2). SEMINAR. SPECIAL TOPICS STUDIED FROM SOURCES.

A course designed to train students especially interested in psychology to trace the development of special problems through the psychological literature.

Open to graduate students, to seniors who are taking twenty-four hours in psychology, and, by permission, to seniors who are taking eighteen hours. Three hours. MR. ZIGLER.

350. RESEARCH OR INDIVIDUAL STUDY.

Open to graduate students and seniors by permission. Two to three hours for a semester or two to six for a year.

DIRECTIONS FOR ELECTION

A twenty-four- or thirty-hour major in psychology must include 209 and 324 or 326. Courses supplementary to a psychology major may include courses in philosophy, economics, education, mathematics, political science, sociology, physics, physiology, and zoölogy.

It is recommended that students majoring in psychology fulfill the language reading requirement by taking the examination in either French or German.

GENERAL EXAMINATION

Students who plan to take the general examination in psychology may consult the department for advice in regard to preparation.

RECONSTRUCTION

Instructor: FLORENCE PAULINE TOMPKINS, M.A.

200. PROBLEMS OF POSTWAR RECONSTRUCTION.

A study of the more important postwar problems and plans for international reorganization. Immediate problems of relief and rehabilitation; factors in world reconstruction; the establishment of an effective world economy; international political organization; social and ethical problems involved in achieving a peaceful world order.

Open to juniors and seniors. The course is designed primarily for students not majoring in the social sciences. It may be counted for credit by majors in Economics, Political Science, or Sociology only by special permission of the department concerned. It may not be counted for distribution nor for concentration. Six hours.

Committee in charge of the course: Mr. Jenks, Miss Overacker, Mr. L. Smith (Chairman). Lectures will be given by members of the following departments: Biblical History, Economics, Geography, History, Philosophy, Psychology, Political Science, and Sociology.

RUSSIAN

Lecturer: VLADIMIR NABOKOV, B.A.

100. ELEMENTARY COURSE.

Open to all undergraduates. Six hours. MR. NABOKOV.

200. INTERMEDIATE COURSE. (Not given in 1944–45.)

Open by permission of the instructor. Six hours. MR. NABOKOV.

SOCIOLOGY

Professor: LELAND HAMILTON JENKS, PH.D. (Chairman)
Associate Professor: MARY BOSWORTH TREUDLEY, PH.D.
Assistant Professor: FLORENCE ROCKWOOD KLUCKHOHN, PH.D.
Instructor: ERNESTINE FRIEDL, B.A.

102 (1), (2). INTRODUCTORY SOCIOLOGY.

An introductory study of culture patterns and social relationships in contemporary society.

Open to sophomores, juniors, seniors and, in the second semester, to freshmen. Three hours.

MR. JENKS, MISS TREUDLEY, MRS. KLUCKHOHN, MISS FRIEDL.

201 (1), (2). THE COMMUNITY.

Studies of types of communities and methods of community analysis.

Open to sophomores who have completed, and to juniors and seniors who have completed or are taking 102. Three hours. MRS. KLUCKHOHN.

202 (2). CULTURAL ANTHROPOLOGY.

A survey of social relationships and culture in non-literate societies and the adjustments of the latter to the modern world.

Open to sophomores, juniors, and seniors who have completed 102. Three hours. MISS FRIEDL.

205 (1). GROUP ORGANIZATION.

An analytical study of organized groups with emphasis upon problems of human relationships. Laboratory work will consist of the analysis of a functioning organization or of case material.

Open to juniors and seniors who have completed 102. Three hours.

MRS. KLUCKHOHN.

206 (1). SOCIAL PROBLEMS.

Methods of approaching the study and understanding of social problems. Possibilities and limits of social planning and action in selected problem fields.

Open to juniors and seniors who have completed or are taking 102 and either 201 or 202 Three hours. MISS FRIEDL.

211 (1). INTRODUCTION TO SOCIAL AND ECONOMIC STATISTICS.

For description and prerequisites, see Economics 211. This course is not to be counted among grade II prerequisites for later election.

301 (2). THEORIES OF SOCIAL RECONSTRUCTION.

For description and prerequisites, see Economics 301.

302 (2). SOCIAL AND CULTURAL CHANGE.

An analysis of differentiation and structural change in such historical institutions as the church, the state, and business enterprise.

Open to seniors who have completed 102 and also twelve hours of work to be chosen from the fields of economics, sociology, history, and political science. Three hours. MR. JENKS.

303 (2). SOCIAL WELFARE.

The organization, technical development, and professionalization of social work. Its functions in the community.

Open to juniors and seniors who have completed or are taking any course of grade II in the department. Three hours. MISS TREUDLEY.

304 (2). STANDARDS OF LIVING AND THEIR MAINTENANCE.

For description and prerequisites, see Economics 304.

306 (1). SOCIAL SYSTEMS IN LATIN AMERICA.

Factors and processes in the development of society and culture in selected Latin-American countries. Individual research problems.

Open to juniors and seniors who have taken or are taking any course of grade II in the department, or Geography 304, History 214, or Spanish 207. Three hours. MR. JENKS.

307 (2). ETHNIC GROUPS IN THE UNITED STATES.

Social and cultural processes involving ethnic groups in the United States.

Open to juniors and seniors who have completed any course of grade II in the department. Three hours. MISS TREUDLEY.

308 (1). MODERN LABOR RELATIONS.

For description and prerequisites, see Economics 308.

314 (1). SEMINAR IN SOCIOLOGY. (Not given in 1944–45.)

Field observation of an organization or sector of a community, preferably reported at the beginning of the semester according to previously approved plans. Comparison of reports and examination of frames of reference in sociological inquiry.

Open to seniors majoring in the department. Two hours. MISS TREUDLEY.

316 (1). HISTORY OF SOCIAL AND POLITICAL THOUGHT.

Outstanding trends of thought from the Greeks to modern times, as reflected in the writings of such social and political philosophers as Plato, Aristotle, Augustine, Machiavelli, Locke, and Rousseau.

Open to juniors and seniors who have completed nine hours in sociology, or Political Science 104 and a grade II course in political science, sociology, history, economics, or philosophy. Three hours. MR. JENKS.

319 (2). MODERN SOCIOLOGY. (Not offered in 1944–45.)

The rise of sociological theory. Intensive study of the systems of three or four outstanding sociologists.

Open to seniors who have completed six hours of grade II in the department, or Economics 317. Three hours. MR. JENKS.

320 (1). POPULATION PROBLEMS. (Not offered in 1944–45.)

Problems arising out of the increase, the distribution, and the move-

ment of population. Principles, goals, and techniques for a population policy with special reference to the United States.

Open to juniors and seniors who have completed Sociology 102 and Economics 101 and have completed or are taking Economics 204 or 209 or any course of grade II in the department. Three hours. MISS TREUDLEY.

322 (2). THE FAMILY.

A study of family systems with special emphasis upon factors of relationship and processes of socialization.

Open to seniors who have completed 102. Three hours. MRS. KLUCKHOHN.

323 (1). CRIMINOLOGY.

Crime and the social structure. Prison culture and the prison community.

Open to seniors who have taken six hours of grade II in the department or who have taken or are taking Psychology 309. Three hours. MISS TREUDLEY.

350. RESEARCH OR INDIVIDUAL STUDY.

To a limited number of advanced students wishing to do individual work outside of regular courses the department is prepared to offer a course of directed reading or investigation.

Students desiring to register for such a course must secure the approval of the chairman of the department in advance of the time at which electives are due. Three hours for a semester or six hours for a year.

DIRECTIONS FOR ELECTION

Students majoring in this department are requested to take their language examination in French, German, or Spanish. Exceptions require the consent of the department.

The attention of students who are interested in the teaching of sociology is called to Education 308, The Teaching of Social Studies in the Secondary School.

GENERAL EXAMINATION

The department seeks to enable its students to acquire: knowledge of a variety of social situations and culture patterns, past and present; ability to think objectively and systematically about them; critical awareness of their own attitudes with respect to social situations and possible social action; grasp of some of the tools, concepts, methods, and techniques which sociologists use in their thinking, and ability to make effective use of them. The general examination will be designed to test its success in these directions.

SPANISH

Associate Professor: ADA MAY COE, M.A. (Chairman)
Visiting Professor: JORGE GUILLÉN, DOCTOR EN LETRAS, CATEDRÁTICO DE UNIVERSIDAD.
Assistant Professor: ANITA OYARZÁBAL, M.A.
Instructors: JUSTINA RUIZ-DE-CONDE, LIC. EN DERECHO, M.A.
CAROL MARY ROEHM, B.A.
RUTH WHITTREDGE, PH.D.
MARY-ELEANOR MAULE, M.A.

All courses of the department are conducted in Spanish; oral expression is stressed.

Attention is called to the opportunities for study in the summer school of Middlebury College and the University of Mexico.

101. ELEMENTARY COURSE.

Grammar, reading, composition, dictation, practical conversation on everyday life, short lectures in Spanish.

Open to students who do not present Spanish for admission. Three class appointments and one conference for conversation, counting six hours.

MISS COE, MRS. RUIZ-DE-CONDE, MISS ROEHM, MISS WHITTREDGE, MISS MAULE.

102. ASPECTS OF SPANISH AND SPANISH AMERICAN LIFE.

The object of the course is two-fold: linguistic and cultural. Reading from modern authors with emphasis on vocabulary building for oral and written expression.

Prerequisite, 101 or an equivalent. Six hours.

MISS OYARZÁBAL, MISS WHITTREDGE, MISS MAULE.

104. NOVEL AND DRAMA OF THE NINETEENTH CENTURY.

A study of the social conditions and literary trends of this period as a basis for the understanding of contemporary literature in Spain and Spanish America. Constant practice is given in the written and spoken language. Lectures by Professor Guillén occurring during the regular scheduled class periods.

Prerequisite, three units in Spanish for admission or, on recommendation of the department, 101. Six hours.

MISS COE, MISS OYARZÁBAL, MRS. RUIZ-DE-CONDE.

203. COMPOSITION.

Emphasis on the acquisition of a large working vocabulary. Weekly written work.

Prerequisite, 102 or 104. Two hours. MISS OYARZÁBAL.

204 (1). CONTEMPORARY SPANISH LITERATURE.

Modern tendencies in Spanish thought and literature, as represented in drama, essay, and poetry. Works by the most prominent authors in each field: Benavente in drama, Unamuno and Azorín in essay, Antonio Machado and Juan Ramón Jiménez in poetry.

Prerequisite, 102 or 104. Three hours. MISS OYARZÁBAL.

206. MAIN CURRENTS OF SPANISH LITERATURE.

A course designed to give students a bird's-eye view of the whole field of Spanish literature, and to correlate the history and literature of the country. Short papers, outside reading.

Prerequisite, 104, and, by permission, 102. Six hours.

MR. GUILLÉN, MRS. RUIZ-DE-CONDE.

207 (2). THE CIVILIZATION OF MEXICO.

A presentation of Mexican civilization as a whole: not only the literature of the country, but the other arts, together with the economic and sociological factors which have produced in Mexico a blend of Spanish and Indian institutions and ideology. Special attention to the contemporary period.

Prerequisite, 102 or 104. Three hours. MISS COE.

301 (1). DRAMA OF THE SEVENTEENTH CENTURY.

The characteristics of the Spanish drama of the Golden Age. Analysis of Spain's ideals of this period as revealed in the drama. Representative masterpieces of the great dramatists: Lope de Vega, Castro, Alarcón, Tirso de Molina, Calderón.

Open to juniors and seniors who have completed six hours of grade II. Three hours. MISS COE.

302 (2). CERVANTES AND THE SPANISH NOVEL OF THE GOLDEN AGE.

Outline of the development of the Spanish novel in the XVI century in its different types and tendencies, the chivalric, the pastoral, the picaresque. Study of Cervantes and his work, representing the culmination of the novel in Spain and the opening of a new era in the history of the European novel. Reading, analysis, and discussion of *Don Quijote.*

Open to juniors and seniors who have completed six hours of grade II. Three hours. MR. GUILLÉN.

303. SEMINAR. SPANISH LITERATURE FROM 1100 TO 1500. (Not given in 1944-45.)

Study of *El Poema del Cid, El Libro de buen amor, La Celestina.*

Open to graduates and to approved seniors who have completed at least one course of grade III. Six hours. MISS COE.

304. SEMINAR. SPANISH POETRY. (Not given in 1944–45.)

A study of the principal movements and poetic schools from the fifteenth to the eighteenth century.

Open to graduates and approved seniors who have completed at least one course of grade III. Six hours. MR. GUILLÉN.

305. SEMINAR. CERVANTES. (Not given in 1944–45.)

A comparative study of the works of Cervantes.

Open to graduates and approved seniors who have completed 302. Six hours. MISS OYARZÁBAL.

306. MODERN SPANISH AMERICAN LITERATURE.

Reading and discussion of representative works in prose and poetry with a special study of the main literary currents, their historical background and their relation to the social, economic and political problems of the present day. First semester: poetry and essay. Second semester: novel, with a comparative study of this *genre* in Spain. Weekly written work throughout the year.

Open to juniors and seniors who have completed six hours of grade II, and History 214. Six hours. MR. GUILLÉN, MISS COE.

309 (2). SPANISH CIVILIZATION.

A course designed to trace the national ideals and traits of character in order to develop an appreciation and understanding of Spain's present-day problems.

Prerequisite, six hours of grade II. Three hours. MRS. RUIZ-DE-CONDE.

310. COMPOSITION.

Advanced composition based on the reading of articles from current Spanish newspapers and magazines.

Prerequisite, six hours of grade II. Two hours. MRS. RUIZ-DE-CONDE.

350. RESEARCH OR INDIVIDUAL STUDY.

Open, by permission, to graduates and to approved seniors who have completed one full grade III course in the department and are taking another full grade III course. Three hours for a semester or six for a year.

DIRECTIONS FOR ELECTION

Course 101 counts for the degree but does not count toward a major.

Students majoring in Spanish are advised to choose 104, 204, 206, 301, 302, 306, 309; but they may consult their instructors and the chairman of the department for other combinations. Course 206 may not be omitted without special permission. A major must include at least twelve hours of grade III. It is also very desirable that every major should include 203 and 310. It is expected that those who are planning to teach will complete satisfactorily a twenty-four-hour major.

Students planning to major in Spanish are advised to take courses in History, Spanish Art, and the literature of other countries. Those especially interested in Spanish America are advised to elect Geography 304, History 214, Sociology 306.

GENERAL EXAMINATION

Every student who presents herself for the general examination in Spanish shall show:

(1) Her knowledge of the language by her ability to use it in the examination.

(2) A general knowledge of Spanish literature with as much of the historical background as is necessary for understanding the literature.

(3) Familiarity with the specific fields of literature elected and their interrelation.

SPEECH

Associate Professor: EDITH WINIFRED MOSES, M.A. (Chairman)
Assistant Professors: CÉCILE DE BANKE [2]
JEANNETTE BARRY LANE, PH.B.
Instructors: VIRGINIA ROGERS MILLER,[4] M.A.
INEZ ELIZABETH HEGARTY, M.A.

Theatre Workshop

Director: ARTHUR ELDON WINKLER, B.S., M.F.A.
Assistant: LOUIS P. GALANIS

Not more than fifteen hours in this department may be counted within the minimum number of hours for the B.A. degree.

Two hours in the sophomore year are required of all students except those who are exempted by examination or have completed course 101 or 105 in the freshman year, or who elect 101 in the sophomore year.

Every freshman who is not electing a course in the department will be required to take a speech test. No preparation is necessary, but a reading test will be given to determine the student's tone quality, speech habits, and bodily control.

The courses are designed to help the student to acquire: (a) free use of the voice and a good pronunciation of English, (b) ease in public address, (c) the power to read aloud simply and with expression, (d) the ability to interpret dramatic literature, (e) an appreciation of the art of the theatre. The courses are arranged to make possible systematic and progressive study along these various lines.

101. FUNDAMENTALS OF VOCAL EXPRESSION.

The purpose of this course is to develop the ability to read and speak audibly, correctly, and expressively. Phonetics, voice production, platform delivery, and the oral study of various forms of literature.

Open to all undergraduates. Six hours.

MISS MOSES, MISS LANE, MRS. MILLER, MISS HEGARTY.

104. VOICE AND SPEECH (A).

This course is intended to promote right habits in the production of voice, and to increase precision in articulation and pronunciation for conversation, classroom use, and extempore speaking.

Required of sophomores except those who have been exempted by examination or have completed or are taking 101 or have completed 105. Not open to students who have completed 101 or 105. Students who have passed the exemption examination may elect it only if they secure the permission of the department. Two hours. MISS MOSES, MISS LANE, MRS. MILLER, MISS HEGARTY.

105 (2). VOICE AND SPEECH (B).

In general, the same as 104 with some extension of the work.

Open to freshmen and, by permission, to sophomores. Not open to students who have completed 101 or 104 nor to those who have passed the exemption examination. Three hours. MISS HEGARTY.

[2] Absent on leave for the first semester.
[4] Appointed for the first semester only.

201. ORAL INTERPRETATION OF MODERN DRAMA.

Presentation of selected scenes illustrating the more important trends from Ibsen's day to the present. Emphasis on character delineation. Development, by laboratory method, of fundamental acting techniques.

Open to sophomores, juniors, and seniors who have had one course in the department or adequate preparation elsewhere. Students who have taken 101 may elect the first semester of this course without the second. Six hours. MISS LANE.

202 (2). PUBLIC SPEAKING.

Presentation of speeches for special occasions such as the after-dinner speech and the formal introduction; types of debate and methods of conducting a forum. Principles of oral composition and of the technique of delivery. Opportunity to organize and conduct an open forum.

Open to students who have completed one course in the department, and, by permission, to sophomores, juniors, and seniors who have been exempted from the Speech requirement. Three hours. MISS MOSES.

203*. THEATRE WORKSHOP.

Theoretical and practical study of the art of the theatre. Presentation of one-act plays in the workshop.

Open, by permission of the instructor, to sophomores, juniors, and seniors, who have completed one course in the department or to those who have an adequate background in speech, drama, and art. Three periods of class work and two of laboratory. Six hours. Director, MR. WINKLER.
Assistant, MR. GALANIS.

204. CHORAL SPEAKING. (Not given 1944–45.)

This course introduces the origin and modern revival of Choral Speaking, and studies the educational, psychological, and social values of the verse-speaking choir, together with special technique requisite for its presentation.

Open to sophomores, juniors, and seniors who have had one course in the department or adequate preparation elsewhere. Students must consult the instructor before electing this course. Two periods a week. Two hours. MISS DE BANKE.

205. ORAL INTERPRETATION OF SHAKESPEAREAN DRAMA. (Not given 1944–45.)

Approach to the study of the Elizabethan repertory theatre through dramatic presentation. Scenes from plays of Shakespeare presented with special regard to contemporary background.

Open to sophomores, juniors, and seniors who have had one course in the department or adequate preparation elsewhere, and to those who are taking or have completed English Literature 309. Students who have taken 101 may elect the first semester of this course without the second. Six hours. MISS DE BANKE.

* A special fee of $25.00 is charged for Speech 203. Loans from the Malvina Bennett Fund for this fee are available for a limited number of students. The chairman of the department should be consulted.

206 (1). ENGLISH PHONETICS.

The International Phonetic Alphabet. Study of the sounds of English in isolation and in connected speech. Effect of pronunciation on quality of voice. Comparison of pronunciations in different parts of the United States.

Open to sophomores who have completed one course in the department, and to juniors and seniors without prerequisite. Two hours. MISS MOSES.

ZOÖLOGY AND PHYSIOLOGY

Professor: MARGARET ALGER HAYDEN, PH.D.

Associate Professors: HARRIET CUTLER WATERMAN, PH.D. (Chairman)
GLADYS KATHRYN MCCOSH, PH.D.
HELEN WARTON KAAN,[1] PH.D.
MARY LELLAH AUSTIN, PH.D.
EVA ELIZABETH JONES, PH.D.

Assistant Professors: ADA ROBERTA HALL,[2] PH.D.
LOUISE PALMER WILSON, PH.D.

Instructors: GERTRUDE ANTOINETTE HEIDENTHAL, PH.D.
CATHERINE HARRIS FALES, M.A.
MARGARET WEAVER HOLT,[4] PH.D.
TILLY EDINGER,[5] PH.D.
JANE DINSMORE MCCARRELL,[4] PH.D.
VIRGINIA MAYO FISKE,[4] PH.D.

Assistants: ELIZABETH HORTENSE LEDUC, B.S.
HELEN LOUISE MICKLEWRIGHT, B.A.
DOROTHY GOLDEN THORNTON, B.S.

Secretary and Custodian: KATHLEEN MILLICENT LEAVITT

Lecturer: MARGARET ELLIOTT HOUCK, M.S.
CURATOR OF THE MUSEUM

101. THE BIOLOGY OF ANIMALS.

This course furnishes the basis for an intelligent understanding of animal life and of the place of man in the world of living things. The study of a series of forms of increasing complexity, culminating in a vertebrate, develops a conception of what an animal is and suggests probable evolutionary sequences. Cells are studied as units of structure and to demonstrate, particularly in germ-cells, the mechanism of heredity. In the second semester, lectures and discussions on the evidence and factors of evolution, on heredity and eugenics.

Open to all undergraduates. Six periods a week, in general two of lecture and discussion, and four of laboratory. Six hours.

MISS HAYDEN, MISS MCCOSH, MISS AUSTIN, MRS. HOUCK, MRS. WILSON, MISS FALES, MISS MCCARRELL.

102. PRINCIPLES OF ZOÖLOGY.

A course designed for students who already have some scientific knowledge of animal life. A study of invertebrate and vertebrate

[1] Absent on leave.
[2] Absent on leave for the first semester.
[4] Appointed for the first semester only.
[5] Appointed for the second semester only.

animals serves as a basis for the consideration of important biological principles and for an appreciation of man's place in nature. Opportunity for individual studies and reports on subjects determined by interests and preparation of students. In the second semester, special emphasis on evolution and heredity.

Students who have offered for admission a course in biology which was largely on animals and which included careful dissection of several forms by the individual students should apply to the Chairman of the Department for permission to take this course. Six periods a week, in general two of lecture and discussion, and four of laboratory. Six hours. MISS JONES.

Zoölogy

203. Vertebrate Zoölogy.

Evidences of evolution from the study of the comparative anatomy and the development of the vertebrates, based upon a careful dissection of dogfish, necturus, and cat. The evolution of the vertebrate type will be traced from a primitive form to man, with particular emphasis upon the changes leading up to the structures found in the human body.

Open to juniors and seniors without prerequisite, and to other students who have completed 101. Five-year Hygiene students electing this course must also take 301. Six periods a week, in general two of lecture and discussion, and four of laboratory. Six hours. MISS WATERMAN, MRS. FISKE, MISS EDINGER.

204. Animal Ecology.

A study of animals in relation to their environment, that is, the natural history of animals. The behavior of animals in their natural surroundings, their adaptations for particular habitats, environmental factors, ecological succession, animal communities such as stream life and a meadow society, distribution and balance in nature. Field studies limited to near-by regions.

Open to students who have completed 101 and, by permission, to juniors and seniors without prerequisite. Six periods a week, in general two of lecture and discussion, and four of laboratory or field work. Six hours. MISS MCCOSH.

301 (1). Mammalian Anatomy (Hygiene 301).

The gross anatomy of bones and muscles.

Required of first-year graduate students in the Department of Hygiene and Physical Education; also of juniors who are registered as five-year Hygiene students. If counted as part of a major in Zoölogy, 301 should be preceded by 101. Three periods a week, in general one of lecture and discussion, and two of laboratory. Two hours. MISS WATERMAN.

313 (2). Mammalian Anatomy (Hygiene 313).

The digestive, respiratory, excretory, reproductive, circulatory, and nervous systems.

Required of first-year graduate students in the Department of Hygiene and Physical Education; also of juniors who are registered as five-year Hygiene students with the exception of those students who have already completed 203. If

counted as part of a major in Zoölogy, 313 should be preceded by 101 and 301. Three periods a week, in general one of lecture and discussion, and two of laboratory. Two hours. MISS WATERMAN.

303 (1). HISTOLOGY AND HISTOLOGICAL TECHNIQUE.

A study of the microscopic structure of the tissues and organs of mammals. Emphasis on the relation of structure and function. Some training in the preparation of tissues for microscopical study.

Open to juniors and seniors who have completed or are taking 203 or 204 or 308. Six periods a week, in general one of lecture and discussion, and five of laboratory. Three hours. MISS HEIDENTHAL.

304 (2). EMBRYOLOGY.

The development of an individual from its origin as a fertilized egg through the time of formation of the principal organs and systems. Laboratory work chiefly on a study of chick and pig embryos.

Open to juniors and seniors who have completed or are taking 203 or 204 or 308. Six periods a week, in general two of lecture and discussion, and four of laboratory. Three hours. MISS HEIDENTHAL.

305 (2). THE DEVELOPMENT OF MODERN ZOÖLOGY.

A study of the outstanding biological contributions from the early Greek period to the twentieth century, leading to a consideration of representative theories and problems of zoölogy of the present day.

Open to students completing a twenty-four-hour major in Zoölogy, and to others with the approval of the department. Three hours. MISS HAYDEN.

306 (1). GENETICS.

The principles of heredity, based on the cytological and genetical evidence found in animals; the application of these principles to human inheritance and to the practical problems of eugenics. The class work is supplemented by a few breeding tests with Drosophila.

Open to students completing a twenty-four-hour major in Zoölogy, and to others with the approval of the department. Three hours. MISS HAYDEN.

310 (2). ADVANCED HISTOLOGY.

A continuation of the study of organs not included in 303. Various aspects of histological research are considered in a series of reports on original papers. Individual problems afford practice in special methods of technique.

Open to juniors and seniors who have completed 303. Six periods a week, in general one of lecture or discussion and five of laboratory. Three hours. MISS HEIDENTHAL.

314 (2). CYTOLOGY. (Not offered in 1944–45.)

The biology of the cell. The structure of protoplasm, nucleus, cytoplasm; the phenomena of mitosis, maturation, fertilization; the relation of cellular structure to sex and heredity. Some training is offered in the technique of microscopical preparation.

Open to students completing a twenty-four-hour major in Zoölogy. Six periods a week, in general two of lecture and discussion, and four of laboratory. Three hours. MISS HAYDEN.

315 (1). PROTOZOÖLOGY. (Not given in 1944–45.)

The morphology, taxonomy, genetics, and interrelationships of the Protozoa; their general physiology; parasitic types; and some of the problems of broad biological significance illustrated by a study of the group.

Open to students completing a twenty-four-hour major in Zoölogy. Six periods a week, in general two of lecture and discussion, and four of laboratory. Three hours. MISS AUSTIN.

350. RESEARCH OR INDIVIDUAL STUDY.

Elementary research problems in invertebrate and vertebrate zoölogy, ecology, histology, embryology, cytology, protozoölogy, and physiology. Independent work required of the student under the direction of the instructor in the field chosen.

Open to graduate students and, by permission, to seniors. Three hours for a semester or six hours for a year. The amount of work contemplated must be indicated at the time of handing in electives.

PHYSIOLOGY

302. PHYSIOLOGY (HYGIENE 302).

For description, see 308.

Required of first-year graduate students in the Department of Hygiene and Physical Education; also required of students registered for the five-year Hygiene course, either in the junior or senior year. If counted as part of a major in Zoölogy, 302 should be preceded by 101. Open to Hygiene students only; others take 308. Six periods a week, in general two of lecture and discussion, and four of laboratory. Six hours. MISS HALL, MRS. WILSON.

308. PHYSIOLOGY.

The course gives a fundamental knowledge of general physiological processes. Simple physical and chemical studies of living matter. Observations of more complex physiological processes—nutrition, circulation, respiration, excretion, nerve-muscle response, reproduction, endocrine activities.

Open to students who offer as prerequisites Zoölogy 101 and Chemistry 101 or 103; or to students who in addition to fulfilling the Chemistry requirements have completed or are taking Zoölogy 203. Open by permission without prerequisite to students majoring in Chemistry. Chemistry 301 is recommended as a parallel course. Six periods a week, in general two of lecture and discussion, and four of laboratory. Six hours. MRS. WILSON, MRS. HOLT.

309 (1). METABOLISM. (Not offered in 1944–45.)

The physiological reactions by means of which energy changes are produced in the animal body. The laboratory work includes a clinical method of determining basal metabolism and individual problems to

illustrate normal and abnormal physiological oxidations in laboratory animals.

Prerequisite, 302 or 308. Six periods a week, in general two of lecture and discussion, and four of laboratory. Three hours. MISS HALL.

312 (2). PHYSIOLOGY OF NUTRITION.

The study of assimilation by tissue cells and the processes involved in normal digestion and absorption of foodstuffs. Normal and faulty nutrition compared by feeding experiments with animals.

Prerequisite, or corequisite, 308 or 302. Chemistry 301 is not required as a prerequisite but is recommended. Six periods a week, in general two of lecture and discussion, and four of laboratory. Three hours. MISS HALL.

316 (2). PHYSIOLOGY OF THE ENDOCRINE GLANDS. (Not offered in 1944–45.)

The chemical control of the animal organism through the secretions of the endocrine glands. Individual problems.

Prerequisite or corequisite, 308 or 302. Six periods a week, in general two of lecture and discussion, and four of laboratory. Three hours. MISS HALL.

350. RESEARCH OR INDIVIDUAL STUDY.

(See Zoölogy.)

DIRECTIONS FOR ELECTION

These courses are designed to provide for the general student a basis for the interpretation of phenomena in the world of living things. At the same time they may furnish a foundation for students who plan to follow professionally some phase of biological work, such as teaching, research, laboratory technique, medicine, public health, physical education, nursing, medical social service.

Five-year Hygiene students wishing to major in the department should elect 101 in the freshman or sophomore year, and 301, 313, and 302 in the junior and senior years.

Pre-medical students are referred to the requirements as given on page 36.

For public health work, students are advised to elect 101 or 203, 308 and 303 in this department and to include Botany 308 among the courses related to the major.

A knowledge of Chemistry is required of all students taking work in Physiology and is desirable for all students majoring in the department. A reading knowledge of French and German is desirable, though not required.

Students majoring in the department may under certain conditions obtain permission from the Chemistry department to take Chemistry 301 after having taken 101.

GENERAL EXAMINATION

The general examination will test the student's knowledge of the fundamental principles underlying animal life, the essential facts involved, and their significance. It will also test her ability to correlate the subject matter of the courses included in her major.

THE COLLEGE COMMUNITY

Wellesley is a residential college. The conditions of life at Wellesley are designed to facilitate and supplement the scholar's activity.

THE DEANS are the officers most directly concerned with the organization of the academic community. In addition to the Dean of Instruction, the Dean of Students, and the Dean of Residence, there is a dean for each class. The Dean of Freshmen is *ex officio* chairman of the Board of Admission and is, therefore, in a favored position to help entering students take their places in the life of the College. At the beginning of the sophomore year, each class is assigned to a member of the teaching staff who is relieved from some duties in order to assume responsibility as the academic adviser for the class during its last three undergraduate years. The Dean of Students is chairman of the class deans and is especially responsible for the interpretation of educational policy to the students. The Dean of Instruction is in charge of those matters of educational policy and administration which relate especially to the faculty.

HALLS OF RESIDENCE are maintained for all undergraduates except those within commuting distance who prefer to live at home. A Head of House presides over each residence and coöperates with the student officers to develop the house group as a congenial social unit. Most of the campus halls have resident faculty members, and other members of the faculty are frequently entertained in the houses by students. There are nine freshman houses. Seven of these are in the village, not far from the campus, and accommodate approximately half the entering class. Each freshman house has a freshman chairman with a junior as her adviser. In each of the other campus houses, members of at least three classes are in residence. Rooms are assigned to new students in the order in which their original application fees have been received.

RELIGIOUS SERVICES are held daily in the College Chapel. On week days these are conducted by some member of the faculty, except on Thursday when a member of the senior class is the leader. The Sunday morning services are led by visiting clergymen of many denominations. In all these services the college choir, led by a member of the department of Music, participates; and, in addition, there are a number of special musical vesper services during the year. The Christian Association conducts a varied program of religious discussions and conferences, and its officers direct numerous service agencies in the neighborhood of Wellesley in which many students participate. The Christian Association coöperates with the student Christian Movement and is an important link between Wellesley students and those of other colleges in this country and abroad.

THE HEALTH SERVICE is directed by the college physicians in coöperation with the department of Hygiene and Physical Education. The

medical staff includes four physicians, one of whom is a psychiatrist. One of the physicians is available for visits to student houses, and a clinic is open without charge to all students at Simpson Infirmary, where seven trained nurses are in constant attendance. The proximity of the College to Boston permits frequent conference with other doctors, and early consultation in case of serious illness is assured. Hospitals in Boston and Newton are so accessible that immediate care can be given to any type of illness or accident. In case of serious illness, parents are notified by telephone or telegram. Seven days of infirmary care are provided without charge to the student.

Emphasis is laid on preventive medicine and on the maintenance of healthy living conditions on the campus. Campus employees are examined by a college physician, and the doctors coöperate with the dietitian and purveyor in the selection of food.

The Placement Office, established by the Founders of the College as the Teachers' Registry, includes in its scope the placing of seniors and alumnae in teaching and other professions, business, government, and industry; the supplying of information about training courses, apprenticeships, and assistantships; and the arranging of lectures and discussions on occupations. Registration for placement is open to all who have taken courses in Wellesley College. Students are invited to register during their senior year but the office is open for conference and advice to all students. The office maintains files, collects credentials, and is the source of information concerning the vocational equipment and experience of Wellesley women. The registration fee is two dollars for life membership, and no commission is charged for placement. The office also registers undergraduates and alumnae for summer work, and has charge of undergraduate employment.

The staff of the Placement Office consists of a Director, two Appointment Secretaries and three assistants. This staff is in active coöperation with other administrative offices.

The College Government Association is responsible for the maintenance of efficient organization of the undergraduate community. It is directed largely by students, though it receives its charter from the Academic Council of the Faculty, which has representatives on its governing boards. Other student organizations foster a variety of interests: the Athletic Association; the Barnswallows (dramatic) Association; the Christian Association; the Forum; the Cosmopolitan Club; the Poetry Club; and numerous departmental clubs. The Wellesley College Service Fund is administered by a special committee of faculty and students which raises and distributes funds for educational and philanthropic agencies. The largest item in its budget is the annual contribution to Yenching University in China.

ACADEMIC AND COMMUNITY BUILDINGS

(Listed in order of construction)

College Hall, the first academic building of Wellesley College, was the gift of the founders, Mr. and Mrs Henry Fowle Durant. In 1875 it was finished and equipped under the close personal supervision of the founders. On March 17, 1914, all but one wing of this historic building was destroyed by fire. That wing, in constant use since 1914, was remodeled in 1936 and houses the department of Geology and Geography. It is located on the hill overlooking Lake Waban.

Music Hall and Billings Hall are large brick buildings devoted to the department of Music. Music Hall, built in 1880, contains offices, practice studios, and listening rooms, and includes in its equipment thirty-seven pianos, six victrolas, a recording machine, and a two-manual organ. The ground floor of Billings Hall (opened in 1904) is given over to the department offices, two classrooms, and a small auditorium. These are equipped with six pianos, a clavichord, a three-manual organ, two specially built phonographs of rare fidelity in reproduction, and apparatus for the projection of music on a large illuminated screen. The second floor is occupied by the Music Library and the office of the Research Librarian in Music.

The Music Library contains 4,700 scores, 2,550 reference books on musical subjects, and 2,700 victrola records, and includes as well a collection of musical manuscripts which is part of the Hazard Collection now housed in the treasure room of the main library.

The department has at its disposal the assignment to students of eight tickets for the weekly concerts of the Boston Symphony Orchestra in Symphony Hall, Boston.

Simpson Infirmary, a brick building erected in 1881, was used as a residence hall until 1908. It now provides living quarters for the Resident Physician and the infirmary staff.

Adjoining this building is a thoroughly modern hospital unit completed in February, 1942. Besides the doctors' offices and well-equipped clinic, there are twenty-three patients' bedrooms, lounges, a solarium, and X-ray and physiotherapy laboratories.

The Farnsworth Art Building was the gift of the late Isaac D. Farnsworth in 1889. It contains lecture rooms and exhibition galleries and is used by the department of Art for its library, study rooms, laboratories and studios.

Through the active interest of friends of the College, the Museum contains a small but representative selection of monuments from different periods and styles: Egyptian minor arts; the M. Day Kimball collection of classical sculpture, including a Polyklitan figure of an athlete; Græco-Buddhist stucco sculpture from Kashmir; a recently excavated

mosaic from Antioch; a few Italian primitives; a 16th century tapestry; the James J. Jarves collection of textiles and laces; a polychrome terra-cotta bust of the Virgin attributed to Silvestro dell'Aquila; a bronze by Kolbe; an early Corot; a late Renoir; a small painting by Francesco Furini; the Cumæan Sibyl by Elihu Vedder; two paintings by Frank Duveneck; a portrait study by Whistler; and two miniatures by Artemis Tavshanjian.

THE CHAPEL was presented in 1899 by Miss Elizabeth G. Houghton and Mr. Clement S. Houghton as a memorial to their father, Mr. William S. Houghton, a trustee of the College from 1880 to his death in 1894. Its windows include memorials to the Founder of the College and to various alumnae and members of the faculty. Behind the memorial tablet (by Daniel Chester French) in honor of Alice Freeman Palmer are the urns holding her ashes and those of her husband, Professor George Herbert Palmer, trustee of Wellesley College from 1912 to 1933. The three-manual, Aeolian-Skinner organ of ninety-one stops was dedicated in the fall of 1936.

THE WHITIN OBSERVATORY is a one-story building of brick, faced with white marble, situated on a small hill on the college grounds and devoted entirely to the use of the department of Astronomy. THE OBSERVATORY HOUSE, the residence of the Director of the Observatory, is nearby. The Observatory, the House, and much of the astronomical equipment are gifts of the late Mrs. John C. Whitin.

MARY HEMENWAY HALL, on the western border of the campus, was erected in 1909 as headquarters of the department of Hygiene and Physical Education when the Boston Normal School of Gymnastics became a part of Wellesley College. It contains lecture rooms, laboratories, offices, and the library of the department of Hygiene and Physical Education.

THE LIBRARY of the College, endowed by Eben Norton Horsford, now numbers over 226,000 bound volumes, including the departmental libraries. The building of the Main Library was the gift of Andrew Carnegie. It was opened for use in 1910 and was enlarged to its present size in 1916, with seating capacity for 539 readers. The books in the Main Library form a collection chosen primarily for the use of students and instructors in Literature and Languages, the Social Sciences, Philosophy, Mathematics, Biblical History, and Geography. The Library is catalogued by author and subject entries, and the most recent and useful bibliographical aids are provided. Special effort is made to train students in methods of research.

The Library subscribes for more than one thousand American and foreign periodicals, including daily newspapers representing different sections of the United States, besides representative British and Continental dailies.

The Library has also many special collections of great interest and value to the student doing graduate or other research work. Among

the most valuable of these are the Frances Pearsons Plimpton Collection of Italian books and manuscripts chiefly of the Renaissance; the Ruskin Collection; the English Poetry Collection; the Katharine Lee Bates Collection of Modern Poets; the Laura Hibbard Loomis Collection of Medieval Literature. With the establishment of the Mayling Soong Foundation, it is expected that a model undergraduate book collection will develop for teaching the art, culture, history, and philosophy of the Far East, particularly China.

The Brooks Memorial Room provides comfortable and beautiful surroundings with carefully selected books for leisure hours of reading.

The following departmental libraries are located in the buildings of the respective departments: Art, Astronomy, Botany, Chemistry, Education, Geology, Hygiene, Music, Physics, Psychology, and Zoölogy.

THE PAGE MEMORIAL SCHOOL on the college campus has two small buildings and is devoted to the education of young children.

FOUNDERS HALL, a building for lecture rooms and department offices pertaining to instruction in the liberal arts, was opened for use in 1919. The hall was built from the Restoration Fund, secured for the College through trustees, faculty, alumnae, and other friends, and replaces in some part College Hall, the first and main building of the College. The building is dedicated as a memorial to the Founders of the College.

ALUMNAE HALL, built in 1923 as the gift of the alumnae for a recreation center, contains an auditorium seating 1,570, a ballroom, a library, committee rooms for the use of alumnae and students, and full equipment for entertaining. There is also a recreation room, known as "The Well", which contains a soda fountain, tables for light refreshments, and a nickelodeon.

SAGE HALL was built to house the departments of Botany and Zoölogy and Physiology. The first unit for the department of Botany was erected in 1927, and the Zoölogy and Physiology unit in 1931. The principal donor was Mrs. Russell Sage.

HETTY H. R. GREEN HALL, the administration building, was in large part the gift of Mrs. Green's son and daughter, Colonel Edward H. R. Green and Mrs. Matthew A. Wilks. It contains the administrative offices, class and seminar rooms, the faculty assembly hall, and offices of student organizations. The Galen L. Stone Tower, named for its donor, contains a carillon which was the gift of Mrs. Charlotte Nichols Greene.

PENDLETON HALL was opened in 1935. It was named at the request of the undergraduates in honor of Ellen Fitz Pendleton, President of the College from 1911 to 1936. This fire-proof building houses the departments of Chemistry, Physics, and Psychology.

THE RECREATION BUILDING, containing the GEORGE HOWE DAVENPORT SWIMMING POOL, was opened in March, 1939. It is the gift of

many donors, two of whom, Mr. and Mrs. Davenport, gave large sums. Students and alumnae gave generously to increase the "Swimming Pool Fund" which accumulated for nearly thirty years. This building has many facilities, including squash and badminton courts, and is used for the indoor activities of the physical education classes. It also serves as a recreation center for students, faculty, administration, alumnae, and their guests.

FOR STUDENTS RESIDENT IN COLLEGE HOUSES	$1100
FOR STUDENTS NOT RESIDENT IN COLLEGE HOUSES	500

Undergraduate students who are permitted to take seven semester hours or less of classroom work a semester, and who do not live in college buildings, pay tuition by the course as follows: for two semester hours, $50 a year; four semester hours, $100; six semester hours, $150. Payment is due at the beginning of the year.

FOR GRADUATE STUDENTS, the charge for full tuition is $150 a semester, covering a program of eight or more semester hours. Tuition for the year is payable in two installments of $150 each, one at the opening of college and the other at the beginning of the second semester. Students in the Department of Hygiene and Physical Education are allowed $50 each semester to be applied against tuition in return for four hours a week of assistance in the work of the department. Fees for a program of less than eight semester hours, and for residence in the Graduate Club House may be found in the *Graduate Circular*.

TIMES AND AMOUNTS OF PAYMENT

Payments must be made before the student can take her place in the classroom. No exception will be made to this rule without written permission from the Assistant Treasurer.

Checks or money orders should be made payable to Wellesley College. If sent by mail, they should be addressed to the Assistant Treasurer.

There are no deductions for absences, and no refunds save in exceptional cases of which the College shall be the sole judge.

FOR STUDENTS RESIDENT IN COLLEGE HOUSES:

Standard Plan:

July 10	$50

Deposit to reserve a place in college for the ensuing year. Failure to make such deposit will mean loss of enrollment. No part of any scholarship or loan awarded by Wellesley College and ordinarily no part of a grant from the Wellesley Students' Aid Society may be applied on this payment.

The deposit is not refundable.

August (at the opening of college)	$525
January (at the beginning of the second semester)	$525

Alternative Plan:

July 10 (see under Standard Plan)	$50
First semester: four installments, in August, October, November, December, each $132.25	$529
Second semester: four installments, in January, March, April, May, each $132.25	$529

FOR STUDENTS NOT RESIDENT IN COLLEGE HOUSES:

Standard Plan:

July 10 . . . . . $50

Deposit to reserve a place in college for the ensuing year. Failure to make such deposit will mean loss of enrollment. No part of any scholarship or loan awarded by Wellesley College and ordinarily no part of a grant from the Wellesley Students' Aid Society may be applied on this payment.

The deposit is not refundable.

August (at the opening of college) $225
January (before the opening of the second semester) $225

Alternative Plan:

July 10 (see under Standard Plan) $50
First semester: four installments, in August, October, November, December, each $56.75 . . . . . $227
Second semester: four installments, in January, March, April, May, each $56.75 . . . . . $227

Graduate and *special students* who do not live in college buildings make payment for room and board directly to the management of the private houses in which they have secured lodging and meals, at such rates and times as the parties to the arrangement may agree upon. Information regarding boarding places may be obtained by addressing the Dean of Residence.

FEES

I. Application fee.

An application fee of $10 is required from all candidates for admission, and no application is recorded until the fee is received. The same fee is required from all former students who apply for readmission. Application fees will not be credited on any bill. If the application is cancelled for any reason, by the candidate or the College, the fee is forfeited to the College. A student who postpones entrance until the year following the one for which she first applied may transfer her application fee.

II. Matriculation and diploma fees for graduate students.

A matriculation fee of $5 is payable when an applicant is admitted to graduate work. The diploma fee of $5 is payable upon receipt of the Master's degree or the Certificate in Hygiene and Physical Education.

III. Music fees.

Fees for instruction in instrumental and vocal music are given on page 124.

IV. Infirmary fees.

The privileges of the infirmary, when prescribed by the Resident Physician, are open to all students without charge for a period not ex-

ceeding seven days, provided no extra service is required. An infirmary fee of $4.00 a day is charged for periods exceeding seven days. Charges for extra services will be determined by the amount required.

Arrangements for a group student health and accident insurance policy are made by the College with a reputable insurance company. The College allowance of seven free days in the infirmary per year together with the benefits of the group student health and accident insurance, should meet the greater part of the necessary medical expenses ordinarily incurred at the College. Details in regard to this insurance will be mailed to students by the Assistant Treasurer, who will be glad to answer questions about it. This insurance is strongly recommended to students, but is not a requirement.

Note:—Every student should also plan for an annual expenditure of $30 to $50 for the purchase of books and supplies.

No student may receive a diploma until a satisfactory settlement of all her college fees has been made.

SCHOLARSHIPS

Scholarships maintained by income from permanent funds are awarded annually to undergraduate students, and grants are made from other funds which the trustees set aside for this purpose each year. The students who qualify for these scholarships are, in the main, those who have been in Wellesley College at least a year, but some freshmen and a few students who transfer from other institutions receive grants. Awards are made in recognition of intellectual ability, of good college citizenship and character, and of genuine financial need. The size of the scholarships ranges in general from $100 to $500.

Applications from students in college must be filed with the Dean of Students, who is Chairman of the Faculty Committee on Scholarships, on forms furnished for the purpose and in accordance with the instructions posted near the close of the first semester.

Scholarships for Freshmen:

A limited number of scholarships are offered to incoming freshmen. Awards are based on financial need and on credentials which give promise of academic success and good college citizenship. There are fifteen Pendelton Scholarships of $600. As funds permit, sums ranging from $100 to $400 are awarded to other freshman applicants.

Applications from all candidates for admission should be made to the Dean of Freshmen before March 15 of the year of admission. More detailed information about scholarships may be obtained by writing directly to the Dean of Freshmen.

Wellesley College is a member of the Seven College Conference which has established National Honor Scholarships for Women. These scholarships may be competed for by students from the three following districts: Middle West, Kansas, Missouri, Nebraska; South, Louisiana, New Mexico, Texas; West, California, Oregon, Washington. Information about these scholarships may be obtained by writing to Mrs. F. Murray Forbes, Jr., Executive Secretary, Committee on National Scholarships for Women, 21 Beaver Place, Boston 8, Massachusetts.

Opportunities for Employment:

The Placement Office offers assistance to students who wish to earn money toward their college expenses. The types of employment are mainly caring for children, clerical work, tutoring, library work, assisting in the various offices of the College, and some domestic work. While the Placement Office makes every effort to obtain places for those who wish to work, it cautions students against depending upon this source for any considerable income. Such employment makes a distinct draft upon strength and time, and it is hardly to be advised for the freshman year.

THE WELLESLEY STUDENTS' AID SOCIETY:

This organization is maintained by alumnae and former students of the College, aided by the faculty and undergraduates, as their contribution towards keeping the opportunity of Wellesley open to students of moderate means. Awards are made both in gifts and in loans, and usually in some combination of the two. These awards are made on practically the same basis as the college scholarships and supplement them for necessary college expenses. They ordinarily range from $50 to $200. Loans and occasionally gifts in small sums, $5 to $25, are also made for incidental expenses and emergencies.

FELLOWSHIPS

The Alice Freeman Palmer Fellowship, yielding an income of about $1,400, was founded in 1903 by Mrs. David P. Kimball. The holder of this fellowship must be a graduate of an American college of approved standing, a woman of good health, not more than twenty-six years of age at the time of her appointment, unmarried throughout the whole of her tenure, and as free as possible from other responsibilities. She must have completed at least one year of graduate study. The same person will not be eligible to the fellowship for more than two years.

The fellowship may be used for study abroad, for study at any American college or university, or privately for independent research.

A form to be used in applying may be obtained from the Secretary to the President, Wellesley College. The application must be filed before February first.

The Fanny Bullock Workman Scholarship, yielding an income of about $1,200, was founded in 1929 by the bequest of Mrs. Fanny Bullock Workman.

The holder of this scholarship must be an alumna of Wellesley College who has completed at least one year of graduate study. She must present evidence of good health, character, financial need, and ability; and must be free from personal obligation which would interfere with study. The scholarship may be used to assist preparation for any useful work.

Forms to be used in applying may be obtained from the Secretary to the President, Wellesley College. Applications must be filed before February first.

The Anne Louise Barrett Fund, yielding an income of about $1,000, was founded in memory of her sister, by bequest of Mrs. Helen Barrett Montgomery of the class of 1884. The income is to be awarded, preferably in the field of music, to a woman who is a graduate of an American college of approved standing and who is a candidate for an advanced degree or has completed at least one year of graduate study. At the discretion of the trustees it may be awarded in any other field. On presenting evidence of notable accomplishment, the same person will be eligible to apply for the fellowship for a second year. In the case of candidates of equal ability, preference will be given to a Wellesley graduate.

The fellowship may be used for study abroad, for study at any American college or university, or privately for independent research. Work in music must be primarily in musical theory, or composition, or the history of music.

Forms to be used in applying may be obtained from the Secretary to the President, Wellesley College. The application must be filed before February first.

THE HORTON-HALLOWELL FELLOWSHIP has been established by the Alumnae Association of Wellesley College in honor of Mary E. Horton, the first professor of Greek, and Susan M. Hallowell, the first professor of Botany. It is open to alumnae of Wellesley College in need of financial assistance for graduate study in candidacy for the degree of Doctor of Philosophy or for private research of equivalent standard. The amount of the fellowship is $1,200. A candidate for this fellowship must present evidence of good health.

Forms to be used in applying may be obtained from the Chairman of the Fellowship Committee, Alumnae Office, Wellesley College. Applications must be filed before February 15.

THE SUSANNA WHITNEY HAWKES TEACHING FELLOWSHIP, from the bequest of Susanna Whitney Hawkes, is offered to a graduate student in the Department of English Composition who is seriously preparing to teach English.

The fellowship is open to those graduates of Wellesley College who have shown special competence in English work, and who have received their B.A. degree within six years. The fellowship, which may be awarded for two successive years, covers tuition fees for graduate courses at Wellesley College and also carries with it an annual stipend of $500.

Applications, with full information about the applicant's work, must be received not later than March first and should be addressed to the Chairman of the Department of English Composition, Wellesley College.

THE LORETTA FISH CARNEY MEMORIAL SCHOLARSHIP, yielding an income of about $150, was founded in 1920 by the alumnae and staff of the Boston Normal School of Gymnastics and the Department of Hygiene and Physical Education of Wellesley College; the income of this fund to be awarded, at the discretion of the teaching staff of the department and of the President of the College, to a second-year student in the department.

THE AMY MORRIS HOMANS SCHOLARSHIP FUND, yielding an income of about $300, was founded in 1924 by the Mary Hemenway Alumnae Association of the Graduate Department of Hygiene and Physical Education in honor of Miss Amy Morris Homans, pioneer and leader in physical education in the United States; the income of this fund to be awarded to a student in the Graduate Department of Hygiene and Physical Education who is in need of assistance and shows proficiency and promise.

THE TRUSTEE GRADUATE SCHOLARSHIPS. Two scholarships yielding an income of $750 each have been established by the Trustees of Wellesley College for members of the senior class who are qualified for graduate work. The scholarships may be used for study in this country or abroad. Notice of the conditions of application are sent by the Dean of Graduate Students in the spring of each year to qualified seniors.

Graduate Scholarships are offered to approved candidates for a Master's degree in residence at Wellesley College. These scholarships provide for (1) one-half of full annual tuition; (2) full tuition; (3) full tuition plus $100. Application for one of these scholarships should be made before March first. A form to be used in applying may be obtained from the Secretary to the Deans, Wellesley College. The application should be accompanied by letters of recommendation from persons familiar with the candidate's college work. The award will be made after the candidate's formal application for admission to graduate work has been accepted. Students who do not maintain their work at B grade or above in all courses counting for the degree during the first semester may be required to relinquish their scholarships at midyears. Scholarships are awarded only to fully qualified candidates for a Master's degree. Special graduate students are not eligible for these awards.

Laboratory assistants and other members of the official staff of the College are granted the privileges of graduate study without tuition charge.

Graduate Study in Classics:

The American School of Classical Studies in Athens offers special opportunity for graduate study in Greek. The income of the Julia Josephine Irvine Fund makes it possible to offer membership without tuition to all graduates and graduate students of Wellesley College who have done sufficient work in Greek and Archæology to profit by the opportunity. The object of the School is to furnish an opportunity to study in Greece the literature, art, antiquities, and history of the country under suitable guidance; to prosecute and to aid original research in these subjects; and to assist in the exploration and excavation of classic sites. Three fellowships of $1,200 each are awarded annually on the basis of competitive examinations and are open to graduates of the coöperating colleges of which Wellesley College is one. For further information apply to Associate Professor McCarthy.

The American School of Classical Studies in Rome is an integral part of the American Academy in Rome. The object of this School is to promote the study of classical literature in its bearing upon antiquities and history; of classical, Etruscan, and Italian art and archæology, including topography, palæography, and epigraphy, and of the art and archæology of the early Christian, Mediæval, and Renaissance periods within the boundaries of Italy. Those admitted are expected to put themselves under the guidance of the director of the Academy and the professor in charge of the School for the full period of eight months. Duly qualified graduates of Wellesley College are exempt from any charge for tuition. Three fellowships in the school of Classical Studies are offered by the Academy, each with a stipend of $1,250 a year for two years, and an allowance of $300 for transportation to and from Rome. A summer school offers a program of great value for students and teachers of the classics. For further information application may be made to Associate Professor Robathan.

SCHOLARSHIPS IN THE MARINE BIOLOGICAL LABORATORY AT WOODS HOLE. Admission to courses at Woods Hole is upon a selective basis. Wellesley College offers annually two scholarships to applicants who are successful candidates. This laboratory is primarily for research, but in the summer courses of instruction are offered, four in Zoölogy and one in Botany. The purpose of these courses is to aid in the production and training of investigators, and first consideration is given to persons who, whether graduate or undergraduate, give promise of contributing to the advancement of science. Applicants must have completed at least two full college courses in the subject in which they wish to work.

Applicants should state the character of the work to be done, whether botanical or zoölogical, whether courses of instruction are desired, or investigation under direction. All applications should be sent to Professor Pulling or Associate Professor Waterman before April first. These applications will be forwarded to Woods Hole to be acted upon May 15.

DEGREES, HONORS, AND PRIZES CONFERRED IN 1944

MASTER OF ARTS

Constance Eames Ballou, b.a., Wellesley College, 1941. *English.*
Margaret Meikle Birch, b.s., Tufts College, 1942. *Zoölogy and Physiology.*
Priscilla Carter, b.a., Wellesley College, 1942. *Chemistry.*
Muriel Ethel Turner Holden, b.a., Mount Holyoke College, 1942. *Chemistry.*
Elinore Hoven, b.a., Kalamazoo College, 1943. *English Literature.*
Marion Josephine Jonap, b.a., Wellesley College, 1943. *English Literature.*
Marcia Kelman, b.s., Tufts College, 1942. *Botany.*
Alma Motzkin, b.a., Adelphi College, 1943. *History.*

MASTER OF SCIENCE IN HYGIENE AND PHYSICAL EDUCATION AND THE CERTIFICATE OF THE DEPARTMENT

Mary June Brasted, b.a., Willamette University, 1940.
Martha Blair Elliott, b.a., Wellesley College, 1943.
Sylvia Fabricant, b.a., Barnard College, 1935.
Betty Mary Spears, b.s. in Home Economics, Purdue University, 1940.
Emily Te Fan Tsou, b.a., Park College, 1942.
Janet Aurora Wessel, b.a., MacMurray College, 1943.

BACHELOR OF ARTS

Claire Bernice Abrams
Adele Adams
Lotte Marion Adler
Adelaide Julia Anderson
Isabel Burnham Anderson
Mary Ellen Andrews
Mary Andrus
Gerda Roosen Appleby
Catharine Elliot Archer
Margaret Mary Archer
Christine Armstrong
Miriam Mead Arnold
Thelma Elaine Arnold
Marguerite Pryce Atkinson
Margaret Leverene Bacon
Katherine Eleanor Baker
Elizabeth Balch
Margaret Emily Bartlett
Margaret Maitland Beamish
Bernice Christine Bean
Margaret Beard
Gertrude Matilda Kingdon Beihrle
Nancy Elizabeth Bell
Patricia Bell
Jessie Evelyn Benson
Babette Mandel Bird
Elizabeth Irene Bird
Sylvia Muriel Bisguier
Carolyn Roehl Blish
Josephine Ida Bloom
Ruth Bluthenthal
Mary Coe Boardman
Reidun Else Bockmann
Valerie Lorraine Boisseau
Carey Ellen Boone
Jacqueline Marie Borré
Charlotte Evans Boucheron
Helen Josephine Brew
Constance Brink
Janet Frances Brown
Lora Jean Burger
Jeanne Marie Burke
Ina Stella Burnes
Jane Elizabeth Burrage
Ellen Butler
Isabella Byrne
Jane Zehnder Camblos
Caroline May Cameron
Mary Elizabeth Cameron
Margaret Holbrook Camp

KATHERINE LOUISE CARRIG
ALICE PRIESTLEY CARROLL
ADELAIDE RUTH CARTER
KATHERINE CHALMERS
HELEN CHRISFIELD
KATHERINE MARY CLANCY
AUDREY ELIZABETH CLARK
NANCY LEE CLARKE
MARGARET LAMBERT CLEVELAND
MARGARET BEALL COBEY
MARY LOUISE COLLYER
RUTH ANN CONDIT
JANE CONNOR
JACQUELINE HARRINGTON COOGAN
ANN COSLER
MARGARET MARY COX
JEAN ESTHER CRAM
MARY MONRO CRANDON
ANNE BARTON CROLIUS
BARBARA JOAN CROOKS
ELSIE SAWYER CURTIS
MARGARET SEBRING CURTIS
JEANNE MARGUERITE DAVERN
JOAN DAWKINS
MARY FRANCES DAWLEY
NANCY JANE DAY
GENE WILLSON DELANO
BARBARA ELIZABETH DEMAREST
CHARLOTTE DAVIDSON DENNEN
ELIZABETH GURLEY DIBERT
MARY CARLETON DICKINSON
EVELINE DIENES
MIRIAM JANE DONOVAN
MARY HELEN DRAKE
MARGARET ANNE DRISCOLL
MARGARET EDISON DUNLOP
EMILY JANE EDDY
MARY ELISABETH EDES
SARAH BERNHEIM ERNST
HELEN DOROTHY ETTINGER
FLORENCE FIELD
HELEN FIELD
RUTH MARY FITCH
SHEILA FLUME
PATRICIA MILLS FOLLETT
SARA ANGENETTE FOSTER
PHYLLIS ANN FOX
BABETTE FRANK
CLAIRE ILENE FREEDMAN
BETTY KEITH FREYHOF
HONEY JOAN FRIEDMAN
CAROLYN LOUISE FURMAN
MARIANNA COMSTOCK GALLAUER
YOLANDA GARCIA-MÉNDEZ
KATHERINE ESTHER GARDNER
LYDIA ANNE GEORGES
ROSAMOND VIRGINIA GETHRO
MARY ELLEN GILL
MARY-RUTH GILLISPIE
LOUISE GINSBURG
MARY CAROLINE GLAZE
LOUISE MAUDE GOETZENBERGER
JOAN GOODNOW
SHIRLEY ROSALYN GORDON
ELIZABETH ANN GOURDIN
EDITH STEVENS GRAY
NANCY ROLLINS GRIFFITH
JOAN DAVIS HALDIMAND
REBECCA WEBSTER HALL
MARILYN BARHAM BARR HAMILTON
NANCY VEEDER HARE
RUTH PATRICIA HARNEY
SHIRLEY HARRIS
MARJORIE HARTMAN
HELEN HUGHES HASLER
MARY MILES HAUSMAN
JANET KELMAN HAYES
BARBARA WALLACE HEARTFIELD
JEAN CATHERINE HELLENS
JANE HERBERT
BARBARA SHERMAN HESSENBRUCH
HENRIETTA HALBERT HICKS
NESTA BETTY HILLMAN
PRISCILLA HOLLIDAY
MARGARET WHEELER HOLLOMON
MARGARET LEARNED HOLMES
MARY MALVINA HOPKINS
BARBARA HOSKINS
ANNE HOVEY
DOROTHY MAY HUGHES
JUNE RITA HULBERT
MARY RUDDOCK HYDE
VERNA HILL IRWIN
CHARLOTTE PETER JEROME
ANNE ELIZABETH JOHNSON
CAROL GREACEN JOHNSON
ELIZABETH STEPHANIE JONES
MARY JANE JORDAN
JOYCE HELENE JOSLIN
MARTHA RADCLIFFE JOYCE
CONSTANCE JUDKINS
BARBARA ANNE KANE
COLLEEN MADELYN KARCHER
VIRGINIA MAY KASSOR

Barbara Mary Keating
Sylvia Wisdom Kenney
Marion Jean Kerr
Suzanne Kibler
Lena Virginia Kickbusch
Jane Kennedy Kimmey
Estella D'Ancona Levi Kirchheimer
Elizabeth Kohman
Lois Ladd
Mildred Carol Lane
Betty Arleen Kolb Laning
Mary Kathryn Leonard
Jean Carter Leslie
Ruth Elizabeth Lester
Doris Carol Levy
Edith Lillie
Caroline Elizabeth Lindh
Helen Doris Livingston
Anne Loeb
Rosemary Lonergan
Martha Patten Longyear
Ann Lord
Patricia Marie Lord
Barbara Lotz
Kathleen Lucas
Elizabeth Love Macey
Elena Florence Mackay
Miriam Magid
Margaret Mairs
Mary Snowden Makinson
Nadia Marculescu
Barbara Kade Mardfin
Jean Montgomery Mark
Elaine Ruth Markley
Margery Marks
Florence Nightingale Marshall
Catherine Barclay Marx
Lucile Virginia Maspero
Marilyn Anita Mayburg
Margery McKenney
Katherine-Jeanne Meagher
Margaret Elizabeth Meanor
Anna Meister
Marietta Meyer
Virginia Alice Meyer
Susannah Lyne Milner
Helen Trowbridge Mix
Jean Winnifred Moir
Carolyn Joe Moore
Jananne Morse
Ruth Nairne
Jean Elizabeth Nearing
Marian Ballou Nelson
Jean Newton
Elizabeth Anna Nichols
Janet Bradley Nichols
Barbara Barclay Nolan
Anne Cabell Noland
Alla O'Brien
Jeanne Eileen O'Donnell
Mary Elizabeth O'Neil
Ann Packard
Nancy Parker
Elsie Haring Pavitt
Seena Maureen Percelay
Virginia May Pierce
Margaret Frances Pierson
Patricia Chaffee Plunkett
Barbara Emery Pollard
Louise Palen Powelson
Pauline Stream Presson
Betty May Preston
Ann Patricia Pringle
Caroline Mather Pullar
Carol Purington
Eleanor Louise Pyne
Vasanthi Rama Rau
Barbara Reese
Edith Allen Remington
Roberta Jean Richardson
Jane Cary Ritter
Louise Roberts
Eleanor Jane Robinson
Frances Roche
Sally Elaine Rosenfeld
Susan Rosenthal
Adele Louise Roth
Doris Ruth Rubin
Rachel Leonora Ryan
Mary Elizabeth Samuels
Kathryn Elizabeth Sanderson
Lila Manfield Sapinsley
Ruth Ann Sawyer
Ann Maurine Schoonover
Janet Shaw
Anita Sylvia Shenberg
Marjorie Stevenson Sheppard
Elizabeth Ann Sherpick
Virginia Vaughan Sides
Phyllis Ann Siebenthaler
Barbara Simpson
Marion Skeath
Constance Elizabeth Smith
Cecilie Smolen

LUCIA SNYDER
MARGERY MARY SOHL
CAROLYN MARY SPAULDING
BARBARA SPEAR
HELEN ADELE STAFFORD
MARILYN PATTERSON STIER
JEAN STONE
RUTH HANCOCK STRANG
ELIZABETH JANE STRICKLAND
GLORIA HAM SWANSON
FAITH LASSER SWARTZ
JANE TAPLEY
ELIZABETH ERSKINE TAYLOR
ALYCE EMILY THORNTON
HELEN TORBERT
ANNE LANDON TOWNSEND
JANE STEWART TUPPER
JANE SUTHERLAND TUTTLE
MARY VARDOULAKIS
ELLA ADELINE VIALL
ELIZABETH BARKER VINAL
PAULINE ELIZABETH VINING
DIANA VOSS
DOROTHY WALLER
PATRICIA RYAN WARD
RUTH PORTER WARING
ELIZABETH HOLT WEIBEL
ADRIENNE RUTH WEISS
MARGUERITE ALICE WELCH
JEAN WERNER
ALICE LEE WHEATLEY
DOROTHY EVELYN WHEELER
CAROLINE WHEELOCK
EDITH WILLIAMS
SYLVIA THELMA WINER
MARTHA LYNCH WISKE
MARJORIE LOUISE WOLFE
RENÉE INEZ WORMSER
VIRGINIA ANNE YERKES
MARY LOUISE YONKER

HONORS IN A SPECIAL FIELD

RUTH BLUTHENTHAL: *Safeguarding the Consumer Interest in the Wartime Economy.*
ROSAMOND VIRGINIA GETHRO: *Furfuraldoxime as a Chelate Group.*
CAROL GREACEN JOHNSON: *A Micro-biological Study of the Effect of the B Vitamins on the Growth of Galac Yeast.*
ELIZABETH ANNA NICHOLS: *Some Social Determinants of Personality in Children.*
MARGARET FRANCES PIERSON: *The Synthesis and Proof of Structure of two Isomeric Aminobiphenylcarboxylic Acids.*
BARBARA EMERY POLLARD: *Moros y Christianos en los Romances y las Comedias Historicas de Lope de Vega.*
BARBARA REESE: *Measurement of Intensity in Spectral Lines.*
MARILYN PATTERSON STIER: *Some Differential Equations and Fourier's Series connected with the Theory of Vibrations.*
ELIZABETH ERSKINE TAYLOR: *The Pastoral Elegy in the English Renaissance.*

DEPARTMENTAL HONORS

LOTTE MARION ADLER, *Spanish.*
MARY MONRO CRANDON, *Chemistry.*
HONEY JOAN FRIEDMAN, *Political Science.*
BARBARA HOSKINS, *Botany.*
ELENA FLORENCE MACKAY, *English Literature.*
MARY VARDOULAKIS, *English Composition.*
JEAN WERNER, *Botany.*

HONOR SCHOLARSHIPS

Honor Scholarships (without stipend) have been established by the College for the purpose of giving recognition to a high degree of excellence in academic work. These honors fall into two classes: students in the first, or higher class, are termed Durant Scholars; students in the second class are termed Wellesley College Scholars.

These honors are awarded to seniors on the basis of two and one-half years' work, to juniors on the basis of one and one-half years' work. The standard in each case is absolute, not competitive.

DURANT SCHOLARS

APPOINTED IN 1944

Class of 1944

GERTRUDE KINGDON BEHRLE
MARY ELIZABETH CAMERON
RUTH ANN CONDIT
MARGARET ANNE DRISCOLL
HELEN FIELD
PHYLLIS ANN FOX
BETTY KEITH FREYHOF
HONEY JOAN FRIEDMAN
ROSAMOND VIRGINIA GETHRO
HENRIETTA HALBERT HICKS
CAROL GREACEN JOHNSON
HELEN DORIS LIVINGSTON
ELENA FLORENCE MACKAY
ELAINE RUTH MARKLEY
FLORENCE NIGHTINGALE MARSHALL
ELSIE HARING PAVITT
BARBARA EMERY POLLARD
LOUISE PALEN POWELSON
BARBARA REESE
ANN MAURINE SCHOONOVER
ROSALIND FRIEDMAN SHALEK
MARY VARDOULAKIS
JEAN WERNER
MARTHA LYNCH WISKE

Class of 1945

ALICE HANNAH BARRADALE
JOAN CAUGHRAN
MARJORIE FRANCES GOODMAN
JOYCE MERRIMAN GULICK
JANE INGLEY
ELEANOR MAY KOJASSAR
SARAH JANE MITCHELL MANLEY
JEAN MUIR PREBLE
ARLINE ROSHKIND
JOYCE RUBENSTEIN
JEAN RUBIN
ALLAIRE URBAN
BARBARA LIN WHITMORE

WELLESLEY COLLEGE SCHOLARS

APPOINTED IN 1944

Class of 1944

LOTTE MARION ADLER
MARY ANDRUS
THELMA ELAINE ARNOLD
RUTH BLUTHENTHAL
HELEN JOSEPHINE BREW
LOUISE POWELL BUTLER
JEAN ESTHER CRAM
MARY MONRO CRANDON
EVELINE DIENES
MARY HELEN DRAKE
SARAH BERNHEIM ERNST
CAROLYN LOUISE FURMAN
LOUISE GINSBURG
LOUISE MAUDE GOETZENBERGER
MARILYN BARR HAMILTON
HELEN HUGHES HASLER
BARBARA HOSKINS
DOROTHY MAY HUGHES
ANNE ELIZABETH JOHNSON
MILDRED CAROL LANE
BETTY KOLB LANING
RUTH ELIZABETH LESTER
KATHLEEN LUCAS
JEAN MONTGOMERY MARK
MARGERY MARKS
MARILYN ANITA MAYBURG
ELIZABETH ANNA NICHOLS
JEANNE EILEEN O'DONNELL
MARGARET FRANCES PIERSON
PAULINE STREAM PRESSON
BETTY MAY PRESTON
SALLY ELAINE ROSENFELD

DORIS RUTH RUBIN
RACHEL LEONORA RYAN
KATHRYN ELIZABETH SANDERSON
CONSTANCE ELIZABETH SMITH
HELEN ADELE STAFFORD
MARILYN PATTERSON STIER
JANE TAPLEY
ELIZABETH ERSKINE TAYLOR
HELEN TORBERT
SYLVIA THELMA WINER
MARJORIE LOUISE WOLFE

Class of 1945

GLORIA DIANA BRADLEY
HARRIET MCAFEE BROWN
FRANCES MARGARET CAPRON
ESTHER BERMAN CLENOTT
JOY AGNES COHEN
JEAN BRYANT DEVEREAUX
ELAINE ELKINS
GLORIA EADE GALLIC
JEANNE GARCELON
NANCY ELDER HEATH
ELEANOR MARTHA HERZ
MILDRED DOROTHEA KEIL
PATRICIA NEWMAKER KNAPP
LENORE LEHN
GLORIA PEARL LEVY
JEAN ANTIONETTE MALMSTEDT
ALICE AYRES MEEKER
MARIAN NEAL
GABRIELLE JAYNE PETERS
ANNE PETTINGELL
CAROL DINA RUBACK
KATE SENIOR
LILLIAN ELIZABETH SLAUGHTER
JOSEPHINE MORGAN STANCISKO
DOROTHY JEAN SWEARINGEN

PRIZES

CERVANTES PRIZE IN SPANISH: BARBARA EMERY POLLARD.
DAVENPORT PRIZE IN SPEECH: MARY LOU MACISAAC.
ISABELLE EASTMAN FISK PRIZE IN SPEECH: SYLVIA ELIZABETH CASSELL.
MARGUERITE MARY TATUM.
JOHN MASEFIELD PRIZE IN PROSE WRITING: MARY VARDOULAKIS.
MARY WHITE PETERSON PRIZE IN ZOÖLOGY: FLORENCE NIGHTINGALE MARSHALL.
LEWIS ATTERBURY STIMSON PRIZE IN MATHEMATICS: PHYLLIS ANN FOX.
WOODROW WILSON PRIZE IN MODERN POLITICS: BETTY KEITH FREYHOF.
FLORENCE ANNETTE WING MEMORIAL PRIZE IN LYRIC POETRY:
JANE DICE CARMAN.

FELLOWSHIP AWARDS FOR 1944–1945

ANNE LOUISE BARRETT FELLOWSHIP

MILDRED GOLDSTEIN, B.A., Vassar College, 1942; M.A., Radcliffe College, 1944; candidate for the degree of Ph.D. at Radcliffe College. *Music.*

ALICE FREEMAN PALMER FELLOWSHIP

MARTHA ELIZABETH STAHR, B.A., Wellesley College, 1941, with departmental honors in Astronomy; M.A., University of California, 1943; candidate for the degree of Ph.D. at the University of California. *Statistical Astronomy.*

FANNY BULLOCK WORKMAN SCHOLARSHIP

SUZANNE ELISABETH ATHENE VAN DYKE, B.A., Wellesley College, 1941, with departmental honors in Astronomy; M.A., University of Michigan, 1942; candidate for the degree of Ph.D. at the University of Michigan. *Astronomy.*

HORTON-HALLOWELL FELLOWSHIP

THERESA ZEZZOS, B.A., Wellesley College, 1943, with departmental honors in Art; candidate for the degree of Ph.D. at Radcliffe College. *Art.*

GRADUATE SCHOLARSHIPS AWARDED TO THE MEMBERS OF THE CLASS OF 1944

HENRIETTA HALBERT HICKS
ELENA FLORENCE MACKAY
JEAN WERNER

SUMMARY OF STUDENTS

Resident candidates for the M.A. degree		26
Resident candidates for the M.S. degree in H. & P. E.		11
Resident candidates for the Certificate in H. & P. E.		11
Candidates for the B.A. degree:		
Seniors	295	
Juniors	369	
Sophomores	452	
Freshmen	453	
	—	1,569
Non-candidates for degrees		16
		1,633
Duplicates		11
Total registration October, 1944		1,622

Geographical Distribution of Students by Home Address

Alabama	5	Oklahoma	10
Arizona	2	Oregon	2
Arkansas	4	Pennsylvania	110
California	21	Rhode Island	23
Colorado	10	South Carolina	2
Connecticut	92	South Dakota	2
Delaware	4	Tennessee	10
District of Columbia	32	Texas	23
Florida	8	Vermont	9
Georgia	7	Virginia	22
Illinois	81	Washington	3
Indiana	16	West Virginia	6
Iowa	11	Wisconsin	22
Kansas	2		
Kentucky	10	Alaska	1
Louisiana	1	Hawaii	4
Maine	17		
Maryland	34		
Massachusetts	249	Bermuda	2
Michigan	28	Brazil	1
Minnesota	37	Canada	4
Mississippi	1	Chile	1
Missouri	24	China	2
Montana	1	Colombia	1
Nebraska	8	Cuba	1
New Hampshire	27	England	1
New Jersey	163	Guatemala	1
New York	347	India	2
North Carolina	11	Iran	1
North Dakota	1	Jamaica	1
Ohio	100	Peru	1

NOTE. — In the geographical lists, 14 whose homes are outside the United States are American citizens; 20 who are living in the United States are children of foreign parents now residents of the United States.

OFFICERS OF THE ALUMNAE ASSOCIATION

Katharine Timberman Wright (Mrs. Francis J.), *President*
317 Stanbery Ave., Columbus, Ohio

Harriet Coman Munroe (Mrs. Stewart W.), *1st Vice-President*
809 Berkshire Rd., Grosse Pointe, Mich.

Nan Brinton Wilson (Mrs. John F.), *2nd Vice-President*
13610 Larchmere Blvd., Cleveland, Ohio

Constance Burnham Reel (Mrs. Philip J.), *Secretary*
412 North Parkview Ave., Columbus, Ohio

Nellie Zuckerman Cohen (Mrs. Arthur J.), *Treasurer*
885 Park Ave., New York, N. Y.

Helen Swormstedt Mansfield (Mrs. H. L.), *Executive Secretary*, Wellesley College

WELLESLEY CLUB PRESIDENTS

California
Central, Mrs. Edward P. Hollis, 2299 Bryant St., Palo Alto.
Southern, Mrs. S. S. Sorenson, 340 North Gower St., Los Angeles.

Canada
Montreal, Mrs. Jacques Des Baillets, 619 Sydenham Ave.

Colorado
Miss Gladys Bode, 1009 Grant St., Denver.

Connecticut
Bridgeport, Mrs. Norman K. Parsells, 3167 North St., Fairfield.
Hartford, Mrs. Edward W. Hastings, 64 Ridgewood Rd., West Hartford.
New Haven, Miss Shirley Eberth, 142 Howard Ave.
Southern, Mrs. F. G. Kingsley, Canoe Hill Rd., New Canaan.
Waterbury, Mrs. Downing A. Reinbrecht, 22 Randolph Ave.

Delaware
Wilmington, Miss Brereton Sturtevant, 1301 Pennsylvania Ave.

District of Columbia
Washington, Mrs. John P. Gregg, 4149 25th St., N., Arlington, Va.

Florida
Miami, Mrs. Herschel E. Smith, 520 Grand Concourse.
St. Petersburg, Mrs. James D. Black, Box 127, Oldsmar.

Georgia
Atlanta, Mrs. Francis H. Evans, 570 Westover Dr.

Hawaii
Mrs. James A. O'Brien, P. O. Box 3221, Honolulu.

Illinois
Chicago, Mrs. Herbert Paschen, 185 Green Bay Rd., Hubbard Woods.

Indiana
Indianapolis, Mrs. Arthur Medlicott, 5879 North New Jersey St.

Iowa
Mrs. William H. Peet, 2833 Ross Rd., Ames.

Kentucky
Lexington, Miss Muriel Cavis, c/o Family Welfare Society, North Upper St.
Louisville, Mrs. Spencer Martin, 1709 Clayton Rd.

Louisiana
New Orleans, Mrs. Arthur C. Seavey, 1844 State St.

MAINE
Eastern, Miss Bernice B. Dunning, 156 Cedar St., Bangor.
Western, Miss Edith Pitt, 147 Pine St., Portland.

MARYLAND
Baltimore, Miss Elinor Anderson, 3927 Canterbury Rd.

MASSACHUSETTS
Berkshire County, Mrs. Thomas Plunkett, 21 Crofut St., Pittsfield.
Boston, Mrs. E. Parker Hayden, 285 Clinton Rd., Brookline.
Fitchburg, Mrs. Paul O'Connor, 14 View St., Leominster.
Haverhill, Mrs. Lindsay Renouf, 59 King St., Groveland.
Lowell, Mrs. Leon Seekins, Tewksbury.
Middlesex, Mrs. Charles E. Garvin, 12 Dover Rd., South Natick.
North Shore, Mrs. Robert H. Bishop, 9 Harding Lane, Marblehead.
Quincy, Mrs. Frank C. Ryder, 79 Winthrop Ave., Wollaston.
Southeastern, Miss Ruth Congdon, 47 Seventh St., New Bedford.
Springfield, Mrs. Constant Southworth, 309 Long Hill St.
Winchester, Mrs. Murray S. Moore, 60 Wedgemere Ave.
Worcester, Mrs. Mervyn Richards, 10 Woodland St.

MICHIGAN
Detroit, Mrs. John Campbell, 18405 Roselawn Ave.
Western, Mrs. S. E. Osgood, 515 Cambridge Blvd. S. E., Grand Rapids.

MINNESOTA
Twin City, Mrs. Theodore Crocker, 4735 Fremont Ave. South, Minneapolis.

MISSOURI
Kansas City, Mrs. John W. Cain, 811 West 62nd St.
St. Louis, Mrs. T. Frank James, Jr., Route 1, Box 399, Clayton.

NEBRASKA
Omaha, Mrs. Donald Pettis, 302 North 54th St.

NEW HAMPSHIRE
Mrs. M. B. Bidwell, 85 Center St., Concord.

NEW JERSEY
Central Jersey, Mrs. Frank T. Gorman, 142 Hodge Rd., Princeton.
New Jersey, Mrs. Roy W. Chestnut, 115 Inwood Ave., Upper Montclair.

NEW YORK
Binghamton, Mrs. Robert B. Nichols, 31 Bennett Ave.
Brooklyn, Mrs. Charles Voorhees Hults, 1908 Ditmas Ave.
Buffalo, Mrs. Lewis U. Wheaton, 490 Richmond Ave.
Eastern, Mrs. Lewis Muhlfelder, 69 Euclid Ave., Albany.
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